

Immunization Coverage Report

State of Utah: 2006



Utah Department of Health
**IMMUNIZATION
PROGRAM**

Immunize for healthy lives

Immunization Coverage Report

State of Utah: 2006

Prepared by

Sheryl N. Stuewe
Provider Relations / Data Analyst
Immunization Program

Patrick W. Lee
Immunization Research Analyst
Immunization Program

The following Utah Department of Health programs and individuals are extended special thanks for subject matter expertise, data resource, editing and consultations:

Immunization Program
Caroline Green
Janel Jorgenson
Darin Larson
Carlie Shurtliff
Data Resources Program
Shaheen Hossain
Karen Zinner
Office of Epidemiology
Rich Lakin
Jennifer Karnik
Child, Adolescent and School Health Program
Janna Forsgren
Office of Public Health Assessment
Kim Neerings

Utah Department of Health
Division of Community and Family Health Services
Bureau of Maternal and Child Health
Immunization Program

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The *Immunization Coverage Report, State of Utah 2006* supports the mission and goal of state and local immunization programs:

... to improve the health of Utah's citizens through vaccinations to reduce illness, disability, and death from vaccine-preventable infections.

This annual immunization coverage report provides an overview of immunization information about Utah residents across the lifespan. Particularly, the immunization coverage status for Utah children and adults is highlighted. Although the report is not totally comprehensive, it is an attempt to gather immunization data from multiple, pertinent sources and present them in a simple, concise format. Information is added and updated each year according to recommendations by various stakeholders at the state and local level. Such updates enable easy access to the most current immunization data and assist local immunization programs in evaluating coverage areas and identifying gaps in services.

Review of immunization data prompts questions regarding inadequate information about:

- adolescent rates
- ethnicity of the populations reported in existing sources of immunization data
- general adult population immunization information
- sub-populations and pockets of need
- Health care workers Hepatitis B rates
- Perinatal Hepatitis B information

A major focus of immunization coverage is the infant and early childhood population. According to the National Immunization Survey (NIS), in 2004 Utah ranked 49th in the nation for the number of two-year olds fully immunized. The NIS measures the number of children 19-35 months of age who have completed the 4:3:1:3:3 (4 DTap, 3 Polio, 1 MMR, 3 Hib, 3 Hepatitis B) series by 24 months of age. Utah's current coverage rate of 71.3% lags behind the national rate. The national rate of 80.9% is an all-time high for immunization coverage levels exceeding the *Healthy People 2010* objective of 80% coverage level for two-year olds.

Because Utah rates were lower in the most recent survey, the focus of work for this past year has been to identify areas of weakness where efforts can be concentrated to affect significant improvements. To ensure this focus, Utah held a statewide Immunization Summit in the fall of 2005 that brought together all stakeholders to discuss methods and strategies to increase Utah's immunization rates.

Ongoing efforts to increase childhood immunization levels will include a variety of interventions such as: educating parents on the continued importance of immunizations, ensuring health care providers have current information on immunization best practices, and enrolling health care providers in the Utah Statewide Immunization Information System (USIIS), which can help parents and providers know when a child needs an immunization. All these efforts combined can help to ensure Utah's children are protected from vaccine-preventable infections now and in the future.

We value your opinion. Please provide us your feedback about this report.

Contact Information:

Linda Abel, BSN, MPA
Immunization Program Manager
Utah Department of Health
PO Box 142001
Salt Lake City, Utah 84114-2001
Phone: (801) 538-9450
Fax: (801) 538-9440

For simplicity of organization, the 12 local health departments (LHDs) have been utilized in this report as the geographic boundaries of reporting service areas. Statewide information is also presented. For each service area, the information is divided into three broad categories: *Demographics*, *Early Childhood Immunization* and *Child and School Immunization*. There are detailed descriptions of data contained within each of these categories.

Limited comments may follow a graph or chart, but the detailed footnotes will be found on the *Reference Notes*, page 40. These explanatory footnotes are intended to provide information on data sources, programs and limitations on data interpretation (i.e., across provider groups for CASA; Head Start reporting groups; etc.)

Where applicable, county specific information is presented. As some service areas may have a particular type of information available to report, that same type of information may not be available or applicable for reporting in another service area.

This year's report contains an expanded *Appendices*. Information appearing in these sections varies from that reported in the body of the report, i.e., data from a limited geographic area, a sub-population group, survey data and disease trends. When reviewing the disease trends of reportable diseases it is important to remember that reporting varies among the different service areas.

Demographic information is vital to understanding the current health and socioeconomic situations of Utah's residents. Different factors, such as whether a family lives in a rural or urban section of the state, can have a significant impact on access to health care.

Demographic information is provided for each of Utah's health district regions regarding the following areas:

Population, Poverty Rate and Health Insurance Status

The changing nature of Utah's Population requires state immunization staff, public health officials, providers, and other public health workers to be increasingly familiar with the state's shifting demographic situation.

The health of a family is often affected by socioeconomic factors. Poverty can be an indirect contributor to disease and illness, including delayed immunizations. A clear understanding is necessary to identify, analyze and move forward with appropriate targeted goals for immunizations across the lifespan.

Insurance status has a profound effect on access to adequate health care across the lifespan. Eligibility for families to qualify for Medicaid, CHIP, and WIC assistance is based on federal poverty levels and age. Medicare eligibility is based on age.

The 2004-2005 Utah Health Status Survey³ showed that 10.9% of Utah residents (all ages) had no health insurance.

The Advisory Committee on Immunization Practices (ACIP) at the Centers for Disease Control (CDC) has established a standard of comparison for immunization status. Up-to-Date-at-Age Two is the percentage of children age two (24 months) that have received all doses of the recommended vaccines, at the recommended age. This standard is used across the United States by state immunization programs and provider sites to evaluate their effectiveness in protecting patients from vaccine preventable diseases as well as by schools and day cares to measure the immunization status of their enrollments. Information is presented regarding the results of utilizing this standard in local health departments and private provider offices. Information is also presented regarding the geographic distribution and availability of health care provider sites families might access for immunizations and primary health care in a medical home.

CASA Assessment: Private Providers and LHDs

The vaccine series used for comparison is established by the ACIP at CDC. Currently the series for evaluation is in transition between **4:3:1:3:3** is 4 doses of Diphtheria, Tetanus, Pertussis (DTaP); 3 doses of polio (IPV), 1 dose of Measles, Mumps, Rubella (MMR); 3 doses of Hib and 3 doses of Hepatitis B and **4:3:1:3:3:1** which adds 1 dose of Varicella.

Clinic Assessment Software Application (CASA) is used to assess the immunization rate. While CASA assessment procedures are standardized, all private providers may not be evaluated on an annual basis, as they are determined on compliance status and previous CASA rates. All local health departments (LHDs) are assessed annually.

The Vaccines for Children (VFC) Program, administered by the CDC through the National Immunization Program (NIP), provides free vaccines to providers (public and private) serving eligible children.

LHDs may contain multiple counties within its service area. Dramatic demographic differences may exist, so the Up-to-Date at Age Two is reported in smaller components for more specific information.

Head Starts, Child Care Facilities, Preschools, Providers, School Nurses, and Facility Types

Required Early Childhood Age Immunizations are: Diphtheria, Tetanus, Pertussis, Polio, Measles, Mumps, Rubella, Haemophilus Influenza Type B, and Hepatitis B.

Child care facilities, preschools and Head Start programs report immunization information in the same manner as school districts to the Utah State Office of Education (USOE).

The geographic distribution of health care providers (i.e., hospitals, community health center clinics, private providers) correlates strongly with families' ability to access and receive immunizations and primary health care in a medical home. Data is reported from the Women Infant and Children's Program (WIC), which provides assistance and education to families regarding healthy foods and preventive health care. Also reporting is data from Community Health Clinics (CHC) and Rural Health Clinics (RHC).

The 2005 Economic Report to the Governor (2005 Economic Report to the Governor, Governor's Office of Planning and Budget, Demographic and Economic Analysis) indicates that according to 2004 Census Bureau population estimates, nationally Utah has a larger percent of its total state population in the preschool age group than any other state. In Utah 9.8% of the total population is 0 through 4 years of age and 21.8% of the total population is 5 through 17 years of age (ibid.).

Exposure to groups of people of any age increases the risk of infectious disease. More than two-thirds of children younger than 6 years and almost all children older than 6 years spend significant time in child care and school settings outside of the homes. The Utah Immunization Rule for Students (R396-100) was implemented in 1975 to implement consistent requirements to protect children attending school.

School Entry (Kindergarten) / Second Dose Measles (K – 12)

Required Kindergarten Entry Age Immunizations are: Diphtheria, Tetanus, Pertussis, Polio, Measles, Mumps, Rubella, Hepatitis B, Hepatitis A, and Varicella.

Children entering seventh grade, beginning July 2006, must have: Hepatitis B, Varicella and Td booster (recommended: Tdap).

Children grades K-12 are required to have two doses of measles vaccine.

Every November 30th, by statute, all schools report student immunization information to the Utah Immunization Program. Conditional enrollment immunization information is also reported during the school year. By collaborative agreement with UDOH, school district immunization reports are provided to the USOE.

WIC, Child Care and Schools, Enrollments

Children attending daycare facilities, preschools, and school settings have increased chances for exposure to illness.

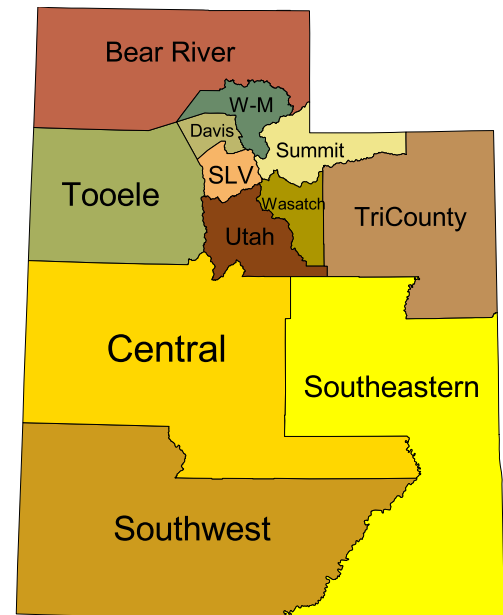
The 12 Utah Head Start (HS) programs serve children through federal grants for Head Start, Early Head Start, Migrant Head Start and American Indian Head Start. HS program areas do not correspond to LHD geographic service areas. Some data will be overlapping boundaries.

Influenza and Pneumococcal

The incidence of childhood vaccine-preventable diseases has declined dramatically, but similar success among adults has not been achieved. Adults suffer the vast majority of vaccine-preventable disease in the U.S. Vaccines remain underutilized, especially among persons at high risk for infection and disease complications, and among certain racial/ethnic populations.

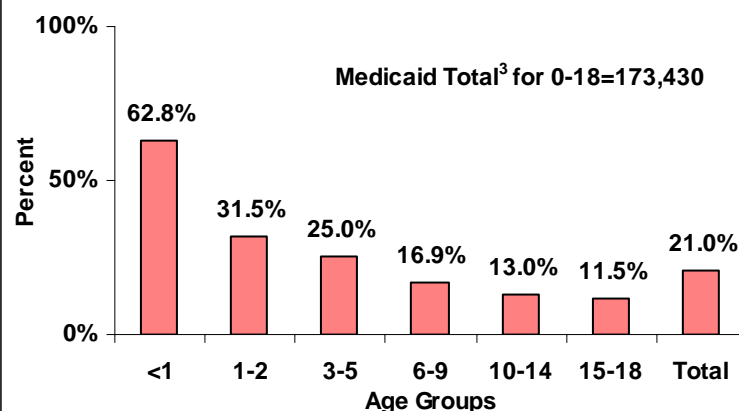
The 2004 BRFSS (Behavioral Risk Factor Surveillance System) survey results on influenza and pneumococcal immunization data have been included. Appendix B includes 2004 long term care and assisted living facility patient and employee immunization information reported to the Immunization Program.

Population 2005 ¹	Number	% of Total
Total Population	2,528,926	
17 and Under	788,452	31.2%
18 to 34	737,965	29.2%
35 to 49	465,964	18.4%
50 to 64	323,963	12.8%
65 and Over	212,582	8.4%
Poverty 2004-2005 ²	Number	% of Total
Total 0-100% Poverty	256,400	10.3%
17 and Under	95,000	12.2%
18 to 34	90,300	12.3%
35 to 49	39,800	8.6%
50 to 64	13,200	4.2%
65 and Over	15,700	7.5%
Total 101-200% Poverty²	590,700	23.6%
17 and Under	221,500	28.4%
18 to 34	187,000	25.6%
35 to 49	87,200	18.9%
50 to 64	36,500	11.6%
65 and Over	58,800	28.0%



Population 2005 ¹	Number	% of Total
Total 0-18	826,830	
<1	51,398	6.2%
1-2	100,855	12.2%
3-5	144,959	17.5%
6-9	171,628	20.8%
10-14	199,944	24.2%
15-18	158,046	19.1%

Medicaid Eligible Population by Age 2005



Insurance 2004-2005 ²	Number	% of Total
Total Insured	2,227,000	89.1%
Total Uninsured	272,100	10.9%
17 and Under	65,700	8.3%
18 to 34	127,200	17.2%
35 to 49	58,600	12.6%
50 to 64	22,700	7.0%
Insurance Type ²	Number	% of Total
Medicare	225,700	10.1%
CHIP*	35,700	5.0%
Insured, Service Not Covered	177,700	8.0%

*Children's Health Insurance Program, Ages 0 to 17

State LHDs: Up-to-Date at Age Two by Antigen 2005

	4 DTaP	3 Polio	1 MMR	3 Hib	3 Hep B	1 Varicella	4:3:1:3:3	4:3:1:3:3:1
State LHDs ⁴	78%	90%	88%	89%	89%	82%	74.0%	70.2%

Up-to-Date at Age Two (4:3:1:3:3)⁴

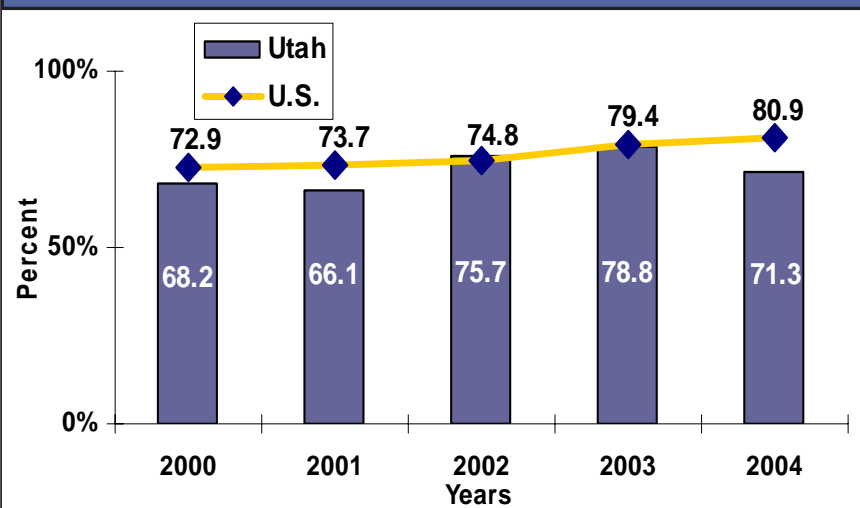
	2001	2002	2003	2004	2005
VFC Private Providers*	70%	77%	53%	58%	64%
FQHC/RHC	33%	64%	30%	49%	67%
Local Health Dept	87%	87%	77%	73%	74%

*Site visit assessment rates are standardized using CASA, but private provider assessments may not be annual and are only done in VFC provider

Health Care 2005⁴

Providers/Facilities	Number
Private VFC Providers	224
School Nurses	131
Public Medical Clinics	32
Hospitals ⁵	45
Long Term Care and Assisted Living Centers ⁶	266
Local Health District Offices	48

NIS⁷ 4:3:1:3:3 Coverage Status 2000-2004 State of Utah and U.S.



Utah NIS Rank⁷

2000	46th
2001	49th
2002	29th
2003	29th
2004	49th

*National Immunization Survey (NIS) annually includes UTD rates for immunizations as assessed by standard criteria. The vaccination series is 4:3:1:3:3
4 DTaP, 3 Polio
1 MMR, 3 HIB,
3 Hep B
Data for 2005 was not yet released at the time of this report.*

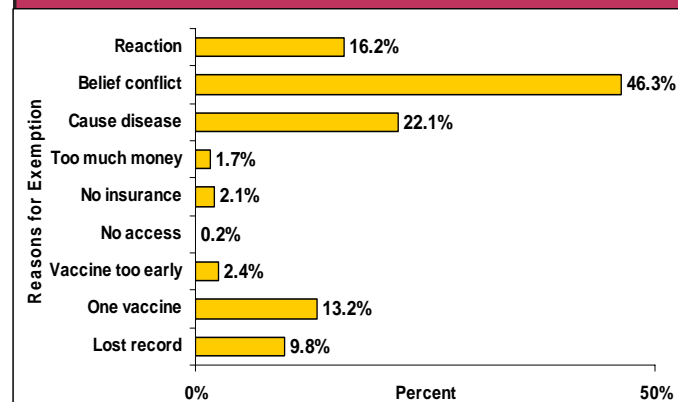
Child & School Health 2005

Child & School Health	Clinics/ Facilities	Enrollment
WIC Women ⁸	53	17,764
WIC Infants ⁸	53	16,845
WIC Children ⁸	53	32,462
Child Care ⁹	423	29,869
Head Start ¹⁰	197	6,011
Schools ¹¹	992	511,957
Public School Districts ¹²	40	485,664

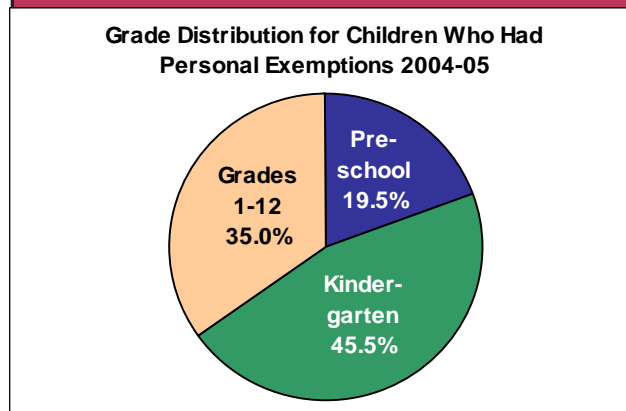
Immunized for School 2005

	Adequately Immunized	Total Exemptions
Child Care Facilities and Preschools ⁹	93.0%	1.2%
Head Start Centers ¹⁰	93.5%	1.4%
School Entry (Kindergarten) ¹³	81.4%	2.8%
Second-Dose Measles (K-12) ¹¹	97.3%	2.0%

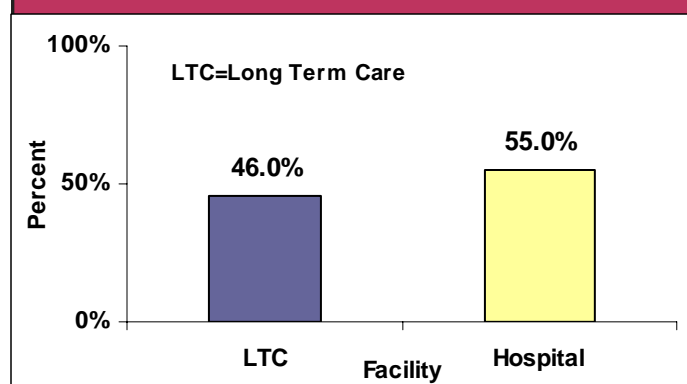
State Exemption Survey 2004-2005⁴



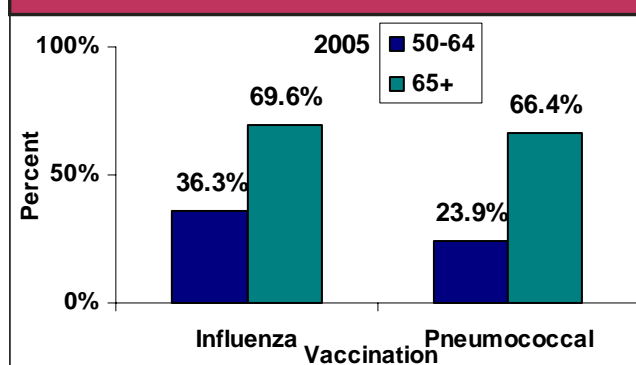
Personal Exemptions by Grade⁴



Workers Immunized Against Influenza 2005⁶

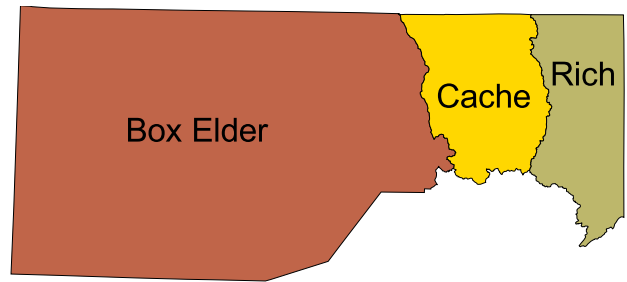


State Influenza & Pneumococcal¹⁴

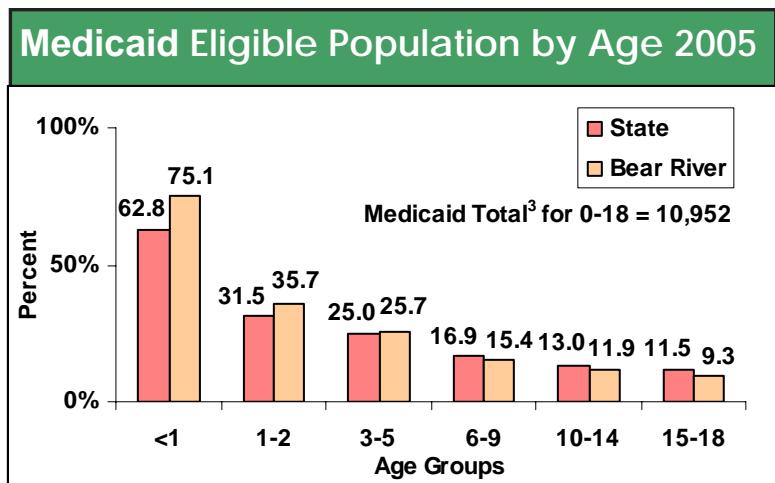


*Influenza=within past 12 months, pneumococcal=ever

Population 2005 ¹	Number	% of Total
Total Population	149,705	
17 and Under	47,995	32.1%
18 to 34	49,023	32.7%
35 to 49	23,955	16.0%
50 to 64	16,640	11.1%
65 and Over	12,092	8.1%
Poverty 2004-2005 ²	Number	% of Total
Total 0-100% Poverty	15,200	10.3%
17 and Under	4,200	8.9%
18 to 34	7,200	14.8%
35 to 49	1,600	6.8%
50 to 64	800	4.7%
65 and Over	900	7.2%
Total 101-200% Poverty²	52,600	35.5%
17 and Under	19,300	40.7%
18 to 34	20,600	42.4%
35 to 49	7,600	31.7%
50 to 64	2,100	12.7%
65 and Over	3,100	25.4%



Population 2005 ¹	Number	% of Total
Total 0-18	50,319	
<1	3,262	6.5%
1-2	6,428	12.8%
3-5	9,014	17.9%
6-9	10,413	20.7%
10-14	11,699	23.2%
15-18	9,503	18.9%
Population 2005 ¹	Number	% of Total
Box Elder	45,142	30.2%
Cache	102,477	68.5%
Rich	2,086	1.4%



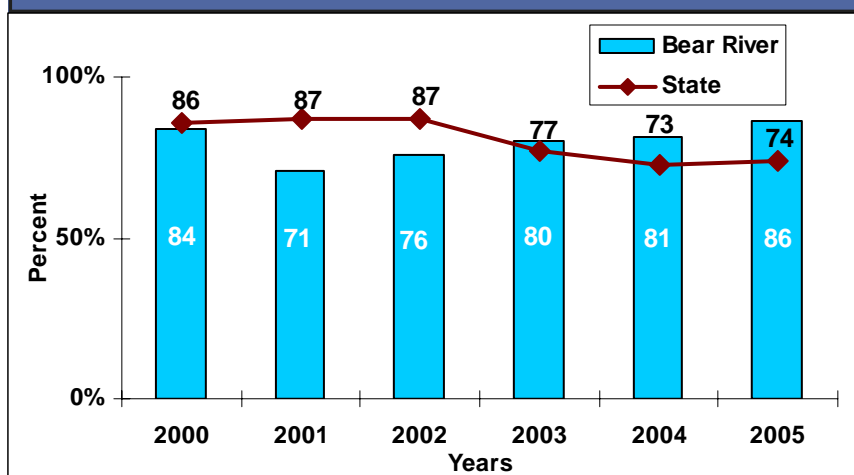
Insurance 2004-2005 ²	Number	% of Total
Total Insured	133,600	90.1%
Total Uninsured	14,700	9.9%
17 and Under	3,100	6.6%
18 to 34	8,400	17.4%
35 to 49	1,800	7.7%
50 to 64	1,300	8.2%
Insurance Type ²	Number	% of Total
Medicare	12,000	9.0%
CHIP*	1,900	4.3%
Insured, Service Not Covered	10,900	8.2%

*Children's Health Insurance Program, Ages 0 to 17

Up-to-Date at Age Two by Antigen 2005

County ⁴	4 DTaP	3 Polio	1 MMR	3 Hib	3 Hep B	1 Varicella	4:3:1:3:3	4:3:1:3:3:1
Box Elder	85%	91%	89%	89%	85%	80%	79.6%	74.1%
Cache	89%	93%	97%	96%	95%	87%	88.9%	81.9%
Rich	N/A	N/A	N/A	N/A	N/A	N/A	NA	N/A
BRHD	88%	92%	94%	93%	92%	84%	86.3%	79.1%

Bear River LHD & State CASA UTD at Age 2 on 4:3:1:3:3 2000-2005⁴



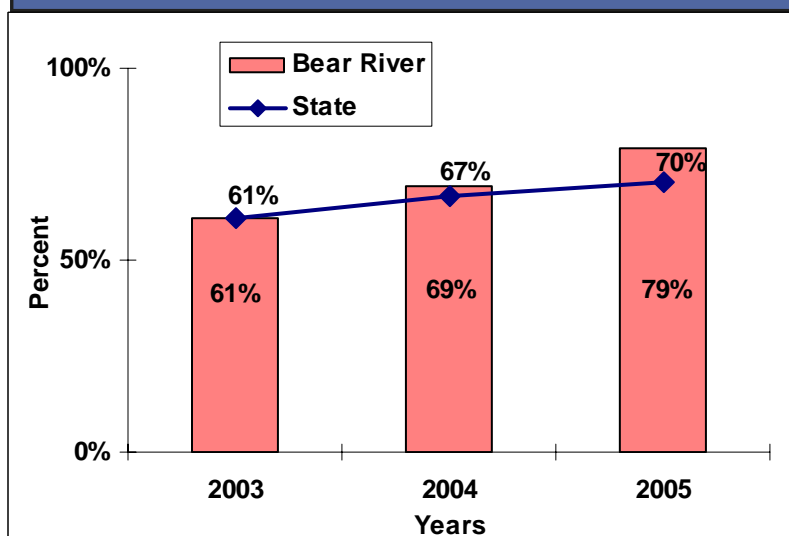
Private VFC Providers Up-to-Date at Age Two (4:3:1:3:3)⁴

2001	7%
2002	56%
2003	56%
2004	59%
2005	66%

Health Care 2005⁴

Providers/Facilities	Number
Private VFC Providers	16
School Nurses	6
Public Medical Clinics	2
Hospitals ⁵	3
Long Term Care and Assisted Living Centers ⁶	18
Local Health District Offices	5

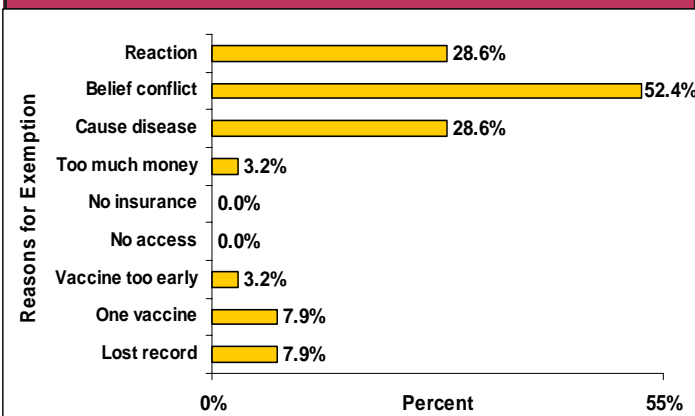
Bear River LHD CASA UTD at Age Two 4:3:1:3:3:1 2003-2005⁴



Adequately Immunized by School District 2005

	Box Elder		Cache		Logan City		Rich	
Bear River	Adequate Immune	Total Exempt	Adequate Immune	Total Exempt	Adequate Immune	Total Exempt	Adequate Immune	Total Exempt
School Entry Kindergarten ¹³	82.8%	2.9%	84.2%	1.6%	91.3%	2.0%	97.0%	3.0%
Second-Dose Measles (K-12) ¹¹	98.5%	1.5%	99.1%	0.9%	97.8%	1.1%	97.9%	0.6%

BR Exemption Survey 2004-2005⁴



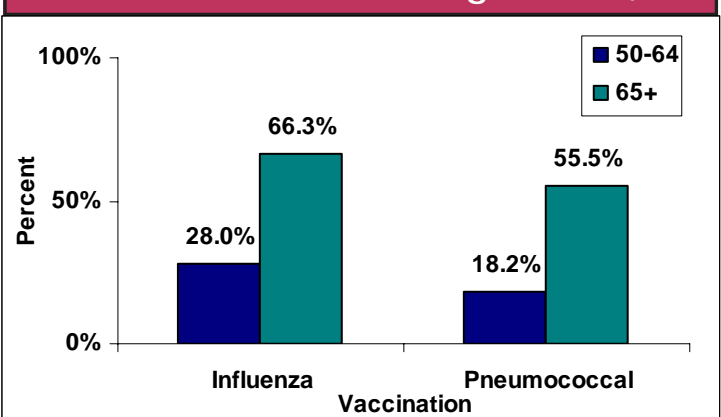
Child & School Health 2005

Child & School Health	Clinics/ Facilities	Enrollment
WIC Women ⁸	4	1,368
WIC Infants ⁸	4	1,196
WIC Children ⁸	4	2,331
Child Care ⁹	11	636
Head Start ¹⁰	11	426
Schools ¹¹	67	29,866

Immunized for Child Care 2005

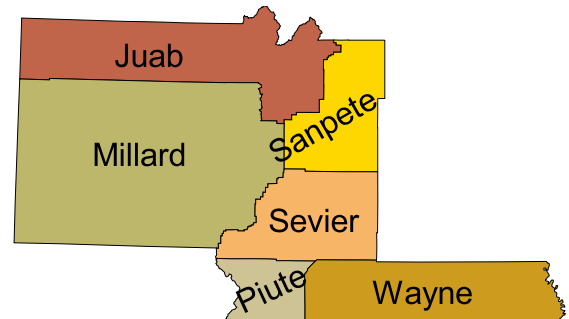
Bear River	Adequately Immunized	Total Exemptions
Child Care Facilities and Preschools ⁹	95.0%	0.8%
Head Start Centers ¹⁰	95.3%	0.5%

Bear River Influenza & Pneumococcal Vaccination Rates¹⁴ 2005 Ages 50-64, 65+



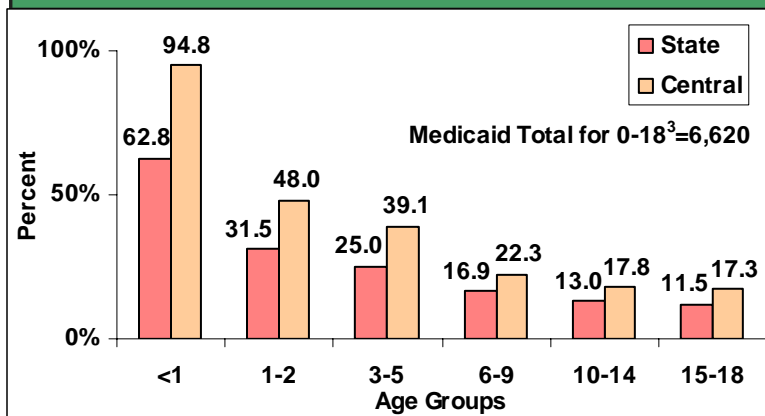
*Influenza=within past 12 months, pneumococcal=ever had

Population 2005 ¹	Number	% of Total
Total Population	71,046	
17 and Under	21,797	30.7%
18 to 34	19,384	27.3%
35 to 49	11,770	16.6%
50 to 64	10,011	14.1%
65 and Over	8,084	11.4%
Poverty 2004-2005 ²	Number	% of Total
Total 0-100% Poverty	12,000	16.9%
17 and Under	4,400	20.3%
18 to 34	3,700	19.6%
35 to 49	1,900	16.4%
50 to 64	800	8.4%
65 and Over	1,000	12.0%
Total 101-200% Poverty²	25,100	35.5%
17 and Under	9,200	42.0%
18 to 34	7,100	37.3%
35 to 49	3,700	31.6%
50 to 64	2,200	22.4%
65 and Over	3,000	37.3%



Population 2005 ¹	Number	% of Total
Total 0-18	23,078	
<1	1,136	4.9%
1-2	2,279	9.9%
3-5	3,543	15.4%
6-9	4,785	20.7%
10-14	6,211	26.9%
15-18	5,124	22.2%
Population 2005 ¹	Number	% of Total
Juab	8,917	12.6%
Millard	13,305	18.7%
Piute	1,356	1.9%
Sanpete	25,447	35.8%
Sevier	19,494	27.4%
Wayne	2,527	3.6%

Medicaid Eligible Population by Age 2005



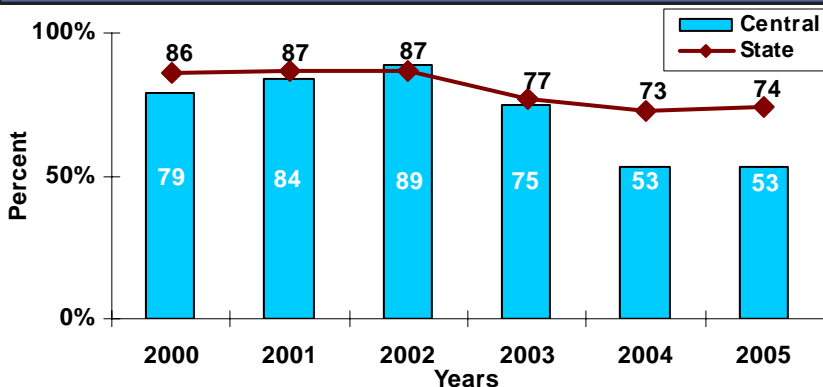
Insurance 2004-2005 ²	Number	% of Total
Total Insured	59,300	83.9%
Total Uninsured	11,400	16.1%
17 and Under	2,200	10.1%
18 to 34	4,900	25.6%
35 to 49	2,600	21.7%
50 to 64	1,600	16.5%
Insurance Type ³	Number	% of Total
Medicare	8,300	14.0%
CHIP*	2,500	12.9%
Insured, Service Not Covered	4,700	7.9%

*Children's Health Insurance Program, Ages 0 to 17

Up-to-Date at Age Two by Antigen 2005

County ⁴	4 DTaP	3 Polio	1 MMR	3 Hib	3 Hep B	1 Varicella	4:3:1:3:3	4:3:1:3:3:1
Juab	50%	60%	65%	70%	70%	55%	45.0%	40.0%
Millard	65%	71%	68%	71%	68%	48%	58.1%	45.2%
Piute	81%	100%	94%	100%	100%	88%	81.3%	81.3%
Sanpete	46%	59%	48%	58%	51%	46%	34.3%	31.4%
Sevier	63%	86%	72%	86%	83%	55%	58.7%	45.1%
Wayne	80%	80%	80%	100%	100%	20%	80.0%	20.0%
CUPHD	59%	76%	66%	82%	74%	53%	53.1%	42.9%

Central LHD & State CASA UTD at Age 2 on 4:3:1:3:3 2000-2005⁴



Private VFC Providers Up-to-Date at Age Two (4:3:1:3:3)⁴

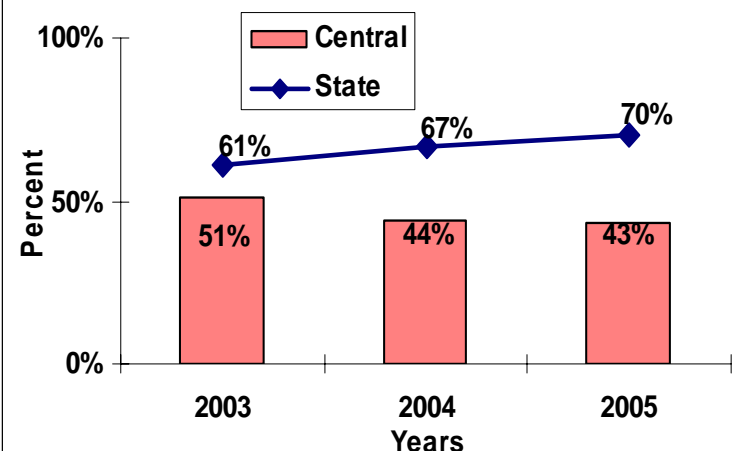
2001	67%
2002	47%
2003	49%
2004	46%
2005	57%

Health Care 2005⁴

Providers/Facilities	Number
Private VFC Providers	13
School Nurses	8
Public Medical Clinics	2
Hospitals ⁵	6
Long Term Care and Assisted Living Centers ⁶	15
Local Health District Offices	8

Central Valley Medical Center & Gunnison Hospital NOT offering birthdose Hepatitis B vaccine.

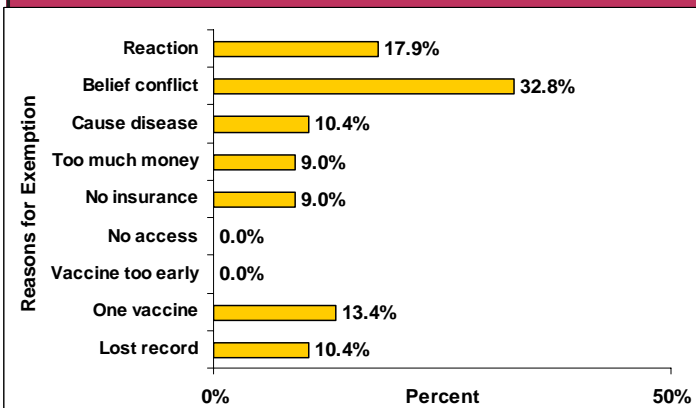
Central LHD CASA UTD at Age Two 4:3:1:3:3:1 2003-2005⁴



Adequately Immunized by School District 2005

	Juab		Millard		N Sanpete		Piute		Sevier		S Sanpete		Tintic		Wayne	
Central	Adeq Imm	Total Exmp	Adeq Imm	Total Exmp	Adeq Imm	Total Exmp	Adeq Imm	Total Exmp	Adeq Imm	Total Exmp	Adeq Imm	Total Exmp	Adeq Imm	Total Exmp	Adeq Imm	Total Exmp
School Entry Kindergarten ¹³	77.2%	8.0%	74.7%	5.9%	51.7%	4.4%	81.5%	7.4%	67.5%	6.9%	62.1%	4.9%	77.8%	7.4%	93.5%	6.5%
Second-Dose Measles (K-12) ¹¹	94.6%	5.3%	97.8%	2.2%	94.8%	4.4%	100%	0%	95.6%	4.0%	95.5%	4.0%	93.7%	4.4%	93.0%	0.8%

Central Exemption Survey 2004-2005⁴



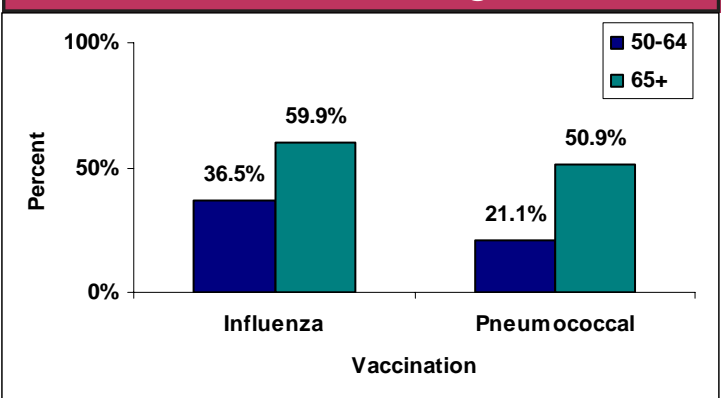
Child & School Health 2005

Group	Clinics/ Facilities	Enrollment
WIC Women ⁸	10	561
WIC Infants ⁸	10	567
WIC Children ⁸	10	1,155
Child Care ⁹	18	679
Head Start ¹⁰	12	192
Schools ¹¹	56	15,794

Immunized for Child Care 2005

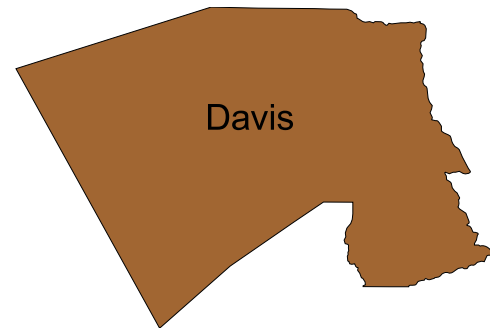
Central	Adequately Immunized	Total Exemptions
Child Care Facilities and Preschools ⁹	94.6%	2.4%
Head Start Centers ¹⁰	91.1%	3.7%

Central Influenza & Pneumococcal Vaccination Rates¹⁴ 2005 Ages 50-64, 65+



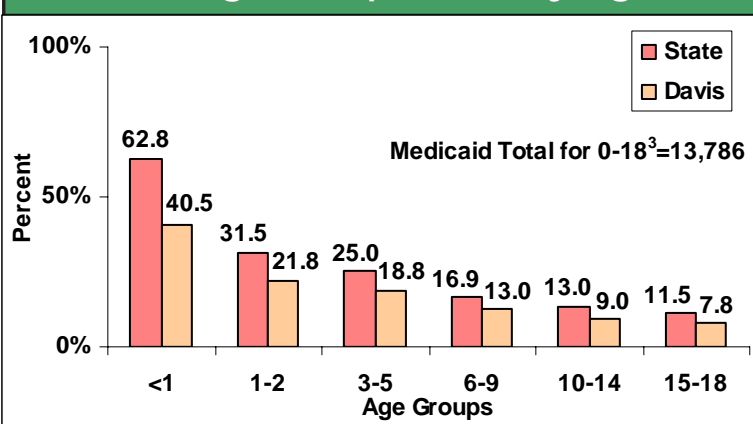
*Influenza=within past 12 months, pneumococcal=ever had

Population 2005 ¹	Number	% of Total
Total Population	276,374	
17 and Under	90,191	32.6%
18 to 34	77,620	28.1%
35 to 49	52,713	19.1%
50 to 64	35,249	12.8%
65 and Over	20,601	7.5%
Poverty 2004-2005 ²	Number	% of Total
Total 0-100% Poverty	23,200	8.5%
17 and Under	9,300	10.4%
18 to 34	4,600	6.0%
35 to 49	5,600	10.6%
50 to 64	2,400	6.9%
65 and Over	1,500	7.2%
Total 101-200% Poverty²	43,800	16.1%
17 and Under	18,400	20.7%
18 to 34	12,800	16.8%
35 to 49	6,600	12.6%
50 to 64	1,800	5.1%
65 and Over	3,700	18.2%



Population 2005 ¹	Number	% of Total
Total 0-18	94,837	
<1	5,606	5.9%
1-2	11,088	11.7%
3-5	15,445	16.3%
6-9	19,735	20.8%
10-14	23,754	25.0%
15-18	19,209	20.3%

Medicaid Eligible Population by Age 2005



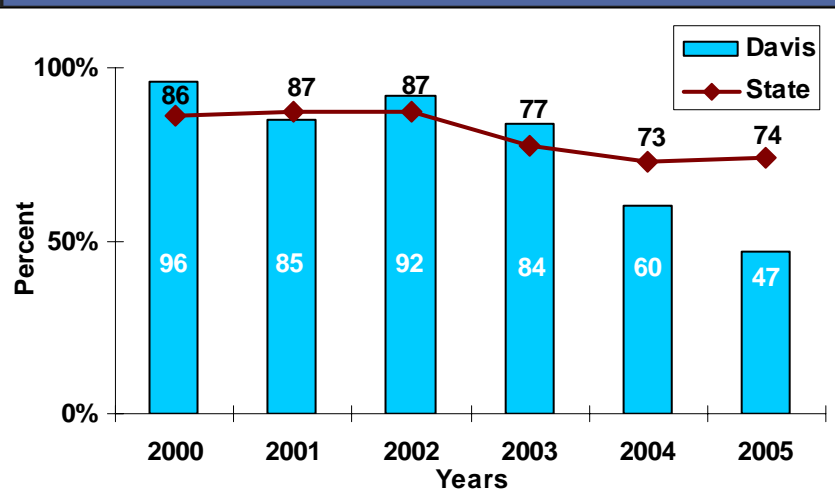
Insurance 2004-2005 ²	Number	% of Total
Total Insured	253,100	92.8%
Total Uninsured	19,500	7.2%
17 and Under	4,500	5.1%
18 to 34	7,900	10.4%
35 to 49	4,700	9.0%
50 to 64	1,800	5.4%
Insurance Type ²	Number	% of Total
Medicare	19,700	7.8%
CHIP*	3,000	3.6%
Insured, Service Not Covered	16,300	6.4%

*Children's Health Insurance Program, Ages 0 to 17

Up-to-Date at Age Two by Antigen 2005

County ⁴	4 DTaP	3 Polio	1 MMR	3 Hib	3 Hep B	1 Varicella	4:3:1:3:3	4:3:1:3:3:1
<i>Davis</i>	51%	70%	73%	70%	66%	69%	47.0%	45.5%

Davis County LHD & State CASA UTD at Age 2 on 4:3:1:3:3 2000-2005⁴



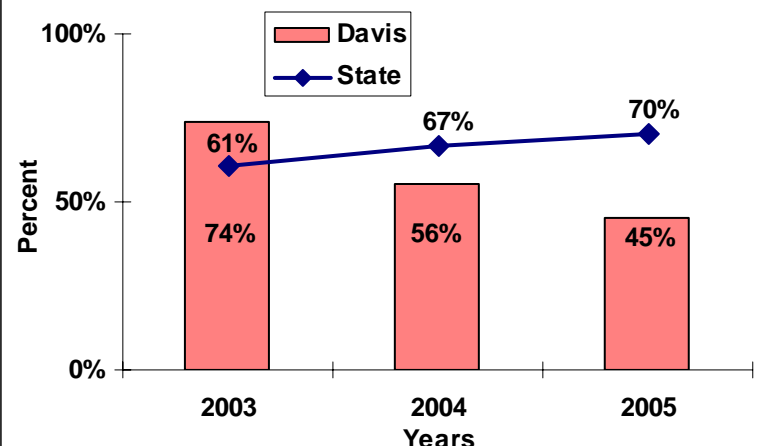
Private VFC Providers Up-to-Date at Age Two (4:3:1:3:3)⁴

2001	67%
2002	73%
2003	77%
2004	60%
2005	67%

Health Care 2005⁴

Providers/Facilities	Number
Private VFC Providers	20
School Nurses	16
Public Medical Clinics	0
Hospitals ⁵	3
Long Term Care and Assisted Living Centers ⁶	24
Local Health District Offices	3

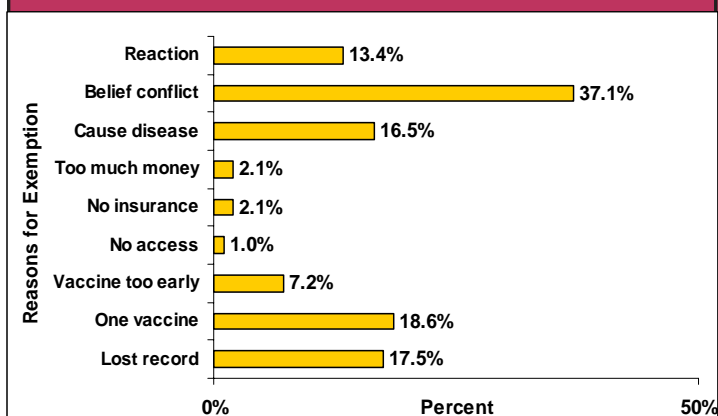
Davis County LHD CASA UTD at Age Two 4:3:1:3:3:1 2003-2005⁴



Adequately Immunized by School District 2005

Davis	Davis School District	
	Adequately Immunized	Total Exemptions
School Entry Kindergarten ¹³	74.8%	1.7%
Second-Dose Measles (K-12) ¹¹	96.1%	1.7%

Davis Exemption Survey 2004-2005⁴



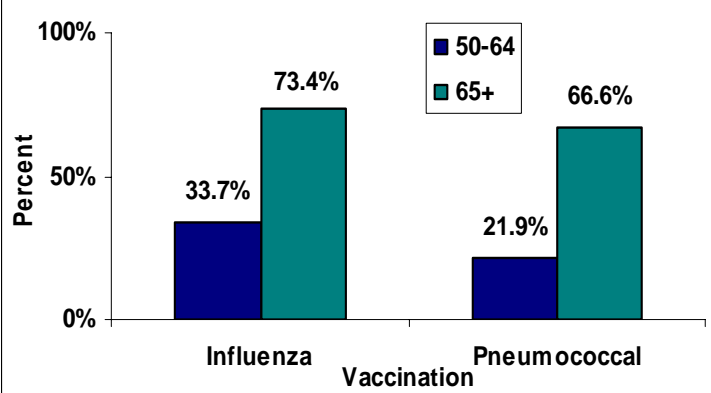
Child & School Health 2005

Group	Clinics/ Facilities	Enrollment
WIC Women ⁸	2	1,291
WIC Infants ⁸	2	1,374
WIC Children ⁸	2	2,568
Child Care ⁹	23	1,589
Head Start ¹⁰	21	1,573
Schools ¹¹	93	64,449

Immunized for Child Care 2005

Davis	Adequately Immunized	Total Exemptions
Child Care Facilities and Preschools ⁹	91.3%	1.1%
Head Start Centers ¹⁰	95.6%	1.0%

Davis Influenza & Pneumococcal Vaccination Rates¹⁴ 2005 Ages 50-64, 65+

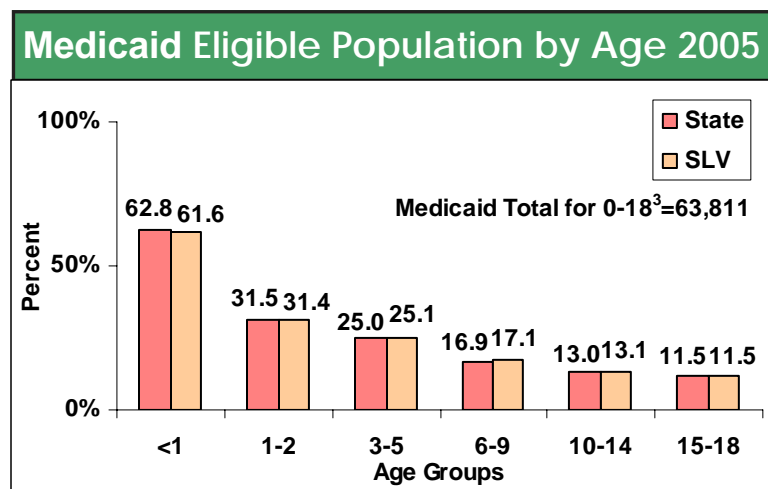


¹⁴Influenza=within past 12 months, pneumococcal=ever had

Population 2005 ¹	Number	% of Total
Total Population	970,748	
17 and Under	290,593	29.9%
18 to 34	269,998	27.8%
35 to 49	196,189	20.2%
50 to 64	135,008	13.9%
65 and Over	78,960	8.1%
Poverty 2004-2005 ²	Number	% of Total
Total 0-100% Poverty	83,100	8.6%
17 and Under	31,500	10.9%
18 to 34	25,200	9.3%
35 to 49	13,000	6.7%
50 to 64	5,200	4.0%
65 and Over	7,500	9.6%
Total 101-200% Poverty²	197,900	20.5%
17 and Under	71,900	25.0%
18 to 34	58,100	21.5%
35 to 49	32,300	16.6%
50 to 64	14,800	11.2%
65 and Over	21,800	27.9%



Population 2005 ¹	Number	% of Total
Total 0-18	304,630	
<1	18,764	6.2%
1-2	36,900	12.1%
3-5	53,612	17.6%
6-9	63,326	20.8%
10-14	74,049	24.3%
15-18	57,979	19.0%



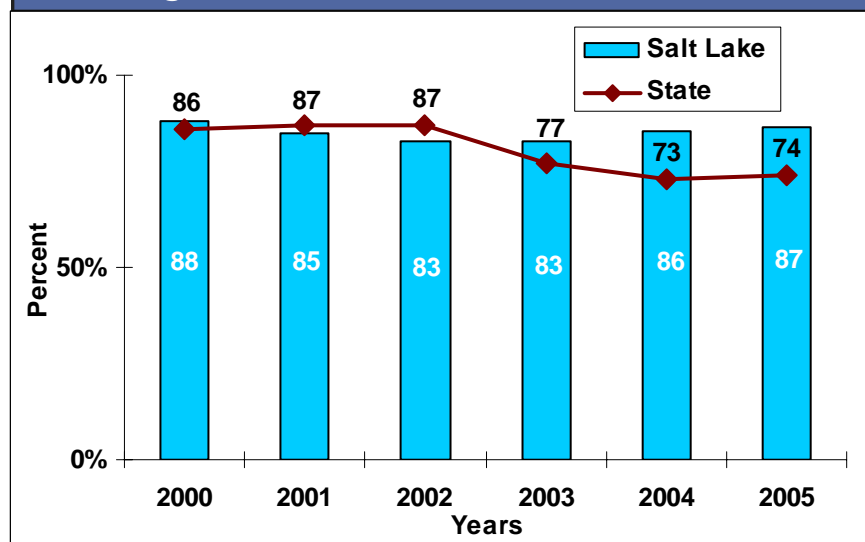
Insurance 2004-2005 ²	Number	% of Total
Total Insured	858,000	89.1%
Total Uninsured	105,000	10.9%
17 and Under	24,600	8.6%
18 to 34	48,200	17.8%
35 to 49	23,400	12.0%
50 to 64	8,200	6.2%
Insurance Type ²	Number	% of Total
Medicare	81,700	9.5%
CHIP*	13,200	5.0%
Insured, Service Not Covered	70,300	8.2%

*Children's Health Insurance Program, Ages 0 to 17

Up-to-Date at Age Two by Antigen 2005

County ⁴	4 DTaP	3 Polio	1 MMR	3 Hib	3 Hep B	1 Varicella	4:3:1:3:3	4:3:1:3:3:1
Salt Lake	88%	96%	96%	95%	97%	93%	86.5%	94.9%

Salt Lake Valley LHD & State CASA UTD at Age 2 on 4:3:1:3:3 2000-2005⁴



Private VFC Providers Up-to-Date at Age Two (4:3:1:3:3)⁴

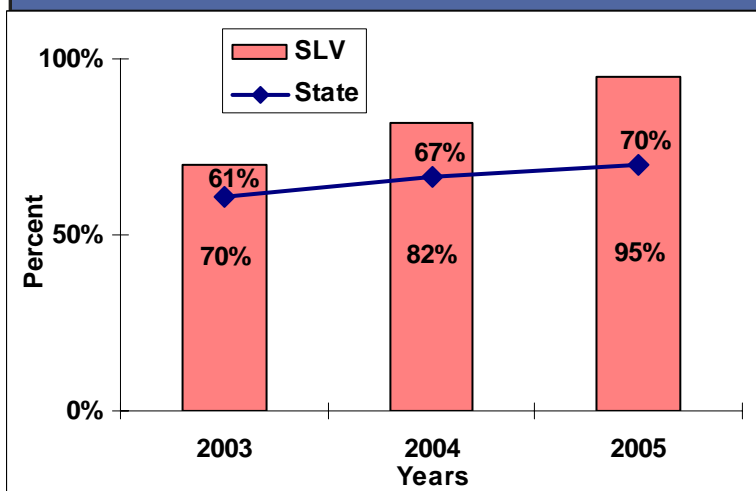
2001	62%
2002	70%
2003	65%
2004	62%
2005	68%

Health Care 2005⁴

Providers/Facilities	Number
Private VFC Providers	67
School Nurses	27
Public Medical Clinics	6
Hospitals ⁵	11
Long Term Care and Assisted Living Centers ⁶	87
Local Health District Offices	6

St Mark's Hospital & University of Utah Medical Center
NOT offering birthdose Hepatitis B vaccine.

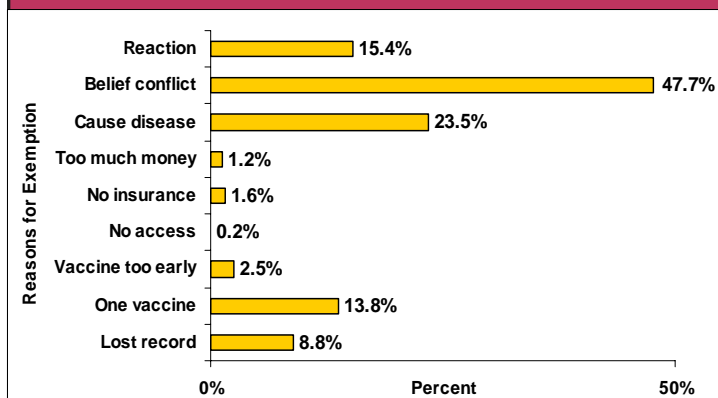
Salt Lake Valley LHD CASA UTD at Age Two 4:3:1:3:3:1 2003-2005⁴



Adequately Immunized by School District 2005

	Granite		Jordan		Murray		Salt Lake	
Salt Lake	Adequate Immune	Total Exempt	Adequate Immune	Total Exempt	Adequate Immune	Total Exempt	Adequate Immune	Total Exempt
School Entry Kindergarten ¹³	86.0%	1.5%	82.8%	2.8%	75.7%	2.8%	92.5%	0.9%
Second-Dose Measles (K-12) ¹¹	97.9%	1.5%	98.1%	1.6%	97.5%	1.7%	99.0%	0.3%

SLV Exemption Survey 2004-2005⁴



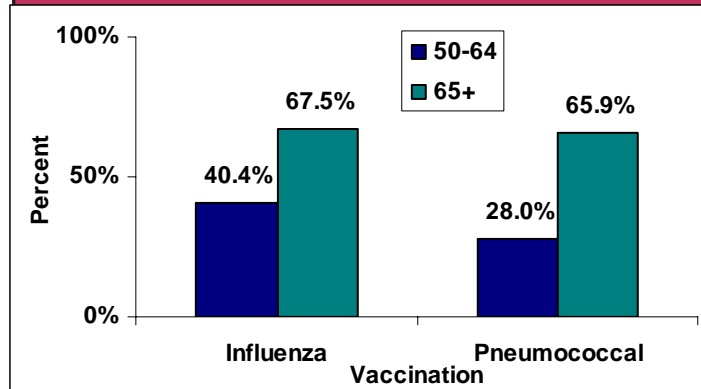
Child & School Health 2005

Group	Clinics/ Facilities	Enrollment
WIC Women ⁸	8	6,401
WIC Infants ⁸	8	6,707
WIC Children ⁸	8	12,139
Child Care ⁹	198	17,210
Head Start ¹⁰	44	1,036
Schools ¹¹	332	183,202

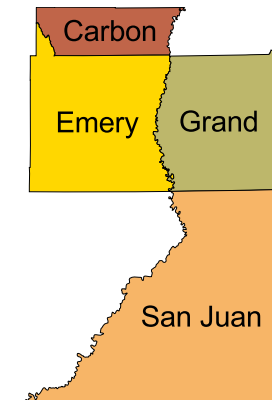
Immunized for Child Care 2005

Salt Lake	Adequately Immunized	Total Exemptions
Child Care Facilities and Preschools ⁹	94.3%	0.9%
Head Start Centers ¹⁰	93.9%	0.6%

SLV Influenza & Pneumococcal Vaccination Rates¹⁴ 2005 Ages 50-64, 65+



*Influenza=within past 12 months, pneumococcal=ever had



Population 2005 ¹	Number	% of Total
Total Population	52,832	
17 and Under	15,228	28.8%
18 to 34	12,773	24.2%
35 to 49	9,675	18.3%
50 to 64	8,849	16.7%
65 and Over	6,307	11.9%

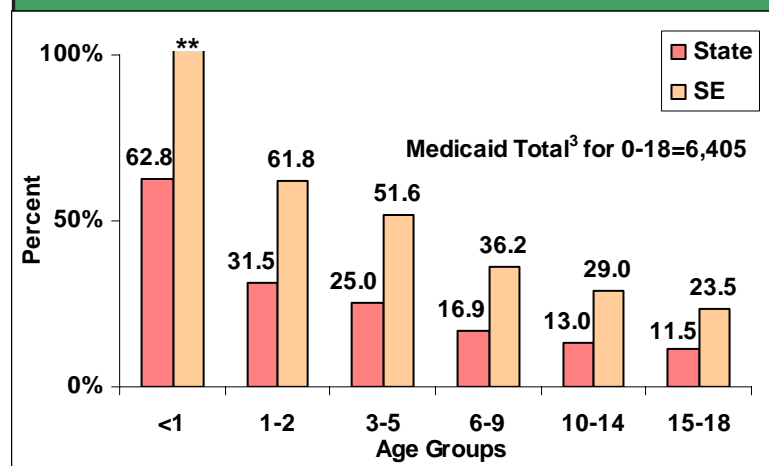
Poverty 2004-2005 ²	Number	% of Total
Total 0-100% Poverty	8,900	16.9%
17 and Under	3,500	23.0%
18 to 34	2,700	21.1%
35 to 49	1,300	13.2%
50 to 64	500	6.1%
65 and Over	900	14.0%

Total 101-200% Poverty²	13,900	26.2%
17 and Under	4,600	29.8%
18 to 34	3,600	28.9%
35 to 49	2,000	19.9%
50 to 64	1,700	19.8%
65 and Over	2,000	32.5%

Population 2005 ¹	Number	% of Total
Total 0-18	16,221	
<1	770	4.7%
1-2	1,544	9.5%
3-5	2,352	14.5%
6-9	3,229	19.9%
10-14	4,402	27.1%
15-18	3,924	24.2%

Population 2005 ¹	Number	% of Total
Carbon	19,205	36.4%
Emery	10,492	19.9%
Grand	8,691	16.5%
San Juan	14,444	27.3%

Medicaid Eligible Population by Age 2005



**Data for <1 Medicaid Eligibles in Southeastern could not be calculated.

Insurance 2004-2005 ²	Number	% of Total
Total Insured	45,800	86.8%
Total Uninsured	7,000	13.2%
17 and Under	1,800	11.5%
18 to 34	2,700	21.6%
35 to 49	1,200	12.2%
50 to 64	1,100	13.0%

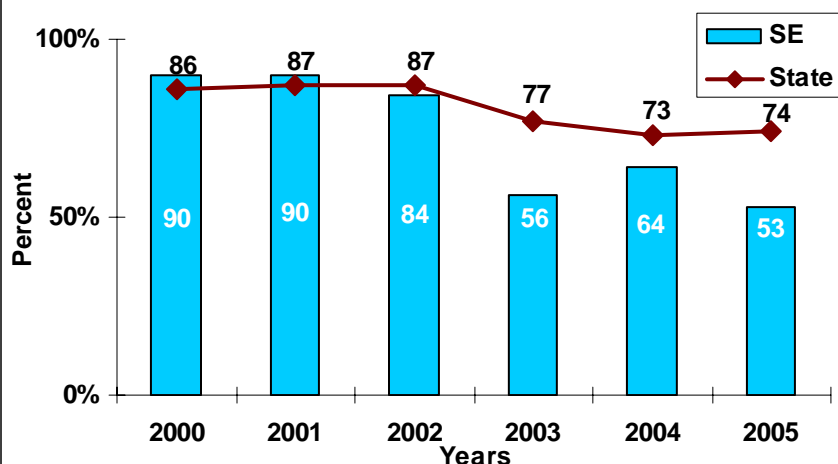
Insurance Type ²	Number	% of Total
Medicare	7,400	16.1%
CHIP*	900	6.7%
Insured, Service Not Covered	5,700	12.5%

*Children's Health Insurance Program, Ages 0 to 17

Up-to-Date at Age Two by Antigen 2005

County ⁴	4 DTaP	3 Polio	1 MMR	3 Hib	3 Hep B	1 Varicella	4:3:1:3:3	4:3:1:3:3:1
Carbon	50%	72%	63%	69%	60%	61%	37.6%	35.8%
Emery	80%	76%	71%	76%	67%	69%	54.9%	51.0%
Grand	97%	97%	97%	97%	94%	100%	93.6%	93.6%
San Juan	88%	100%	98%	100%	95%	75%	82.5%	60.0%
SEUPHD	62%	79%	73%	78%	69%	68%	52.5%	47.8%

Southeastern LHD & State CASA UTD at Age 2 on 4:3:1:3:3 2000-2005⁴



Private VFC Providers Up-to-Date at Age Two (4:3:1:3:3)⁴

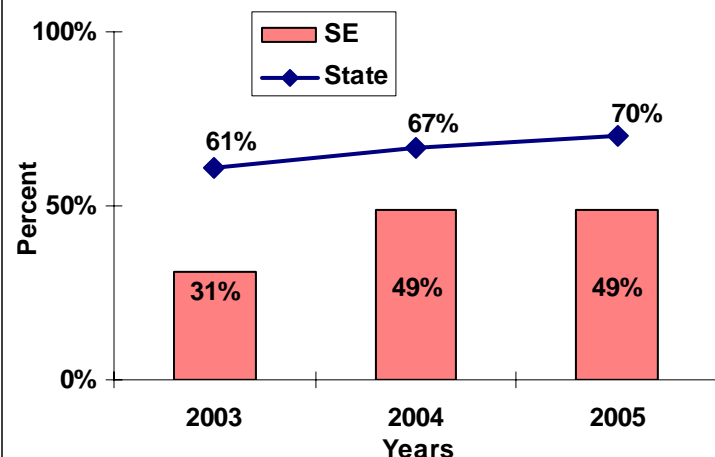
2001	69%
2002	NA
2003	NA
2004	77%
2005	NA

Health Care 2005⁴

Providers/Facilities	Number
Private VFC Providers	3
School Nurses	6
Public Medical Clinics	7
Hospitals ⁵	4
Long Term Care and Assisted Living Centers ⁶	6
Local Health District Offices	5

Allen Memorial Hospital & San Juan Hospital NOT offering birthdose Hepatitis B vaccine.

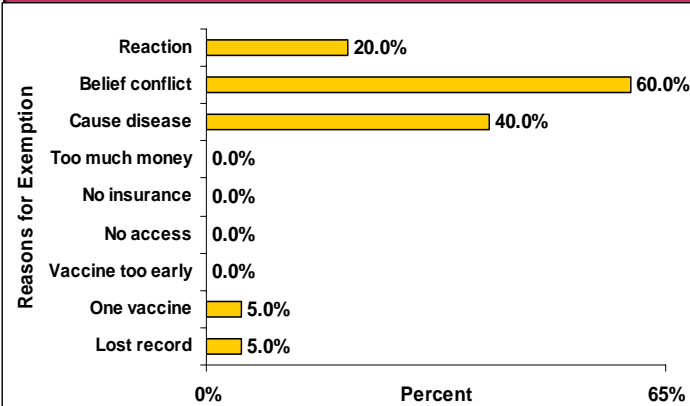
Southeastern LHD CASA UTD at Age Two 4:3:1:3:3:1 2003-2005⁴



Adequately Immunized by School District 2005

Southeastern	Carbon		Emery		Grand		San Juan	
	Adequate Immune	Total Exempt	Adequate Immune	Total Exempt	Adequate Immune	Total Exempt	Adequate Immune	Total Exempt
School Entry Kindergarten ¹³	79.5%	3.4%	76.4%	5.5%	88.8%	5.2%	83.9%	3.2%
Second-Dose Measles (K-12) ¹¹	98.6%	1.4%	96.7%	3.2%	96.4%	3.5%	98.4%	1.4%

SE Exemption Survey 2004-2005⁴



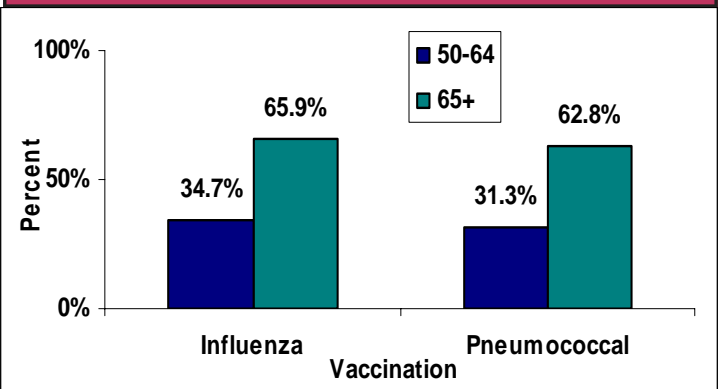
Child & School Health 2005

Group	Clinics/ Facilities	Enrollment
WIC Women ⁸	7	377
WIC Infants ⁸	7	407
WIC Children ⁸	7	699
Child Care ⁹	31	678
Head Start ¹⁰	15	343
Schools ¹¹	44	10,139

Immunized for Child Care 2005

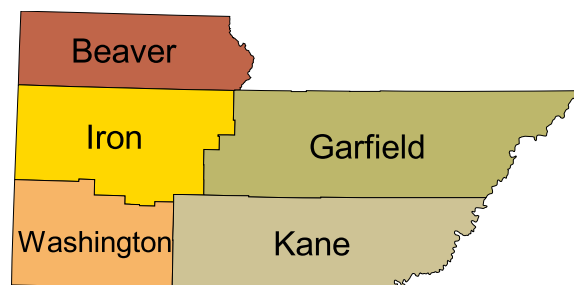
Southeastern	Adequately Immunized	Total Exemptions
Child Care Facilities and Preschools ⁹	93.8%	1.2%
Head Start Centers ¹⁰	94.2%	0.6%

Southeastern Influenza & Pneumococcal Vaccination Rates¹⁴ 2005 Ages 50-64, 65+

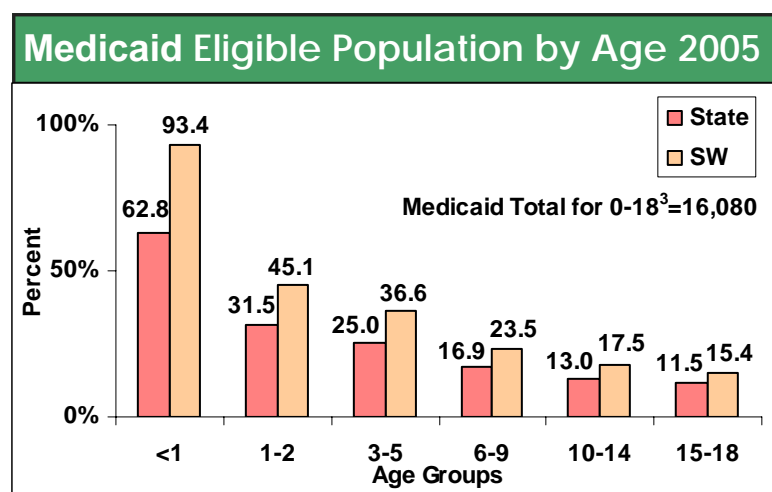


*Influenza=within past 12 months, pneumococcal=ever had

Population 2005 ¹	Number	% of Total
Total Population	182,295	
17 and Under	51,768	28.4%
18 to 34	49,565	27.2%
35 to 49	30,025	16.5%
50 to 64	24,463	13.4%
65 and Over	26,474	14.5%
Poverty 2004-2005 ²	Number	% of Total
Total 0-100% Poverty	23,000	12.9%
17 and Under	7,800	15.3%
18 to 34	8,000	16.6%
35 to 49	4,100	14.0%
50 to 64	1,000	4.2%
65 and Over	1,400	5.5%
Total 101-200%	54,300	30.5%
17 and Under	18,900	37.1%
18 to 34	18,000	37.4%
35 to 49	7,100	24.3%
50 to 64	2,900	12.1%
65 and Over	6,900	26.8%



Population 2005 ¹	Number	% of Total
Total 0-18	54,472	
<1	3,377	6.2%
1-2	6,592	12.1%
3-5	9,133	16.8%
6-9	11,087	20.4%
10-14	13,217	24.3%
15-18	11,066	20.3%
Population 2005 ¹	Number	% of Total
Beaver	6,335	3.5%
Garfield	4,645	2.5%
Iron	40,212	22.1%
Kane	6,093	3.3%
Washington	125,010	68.6%



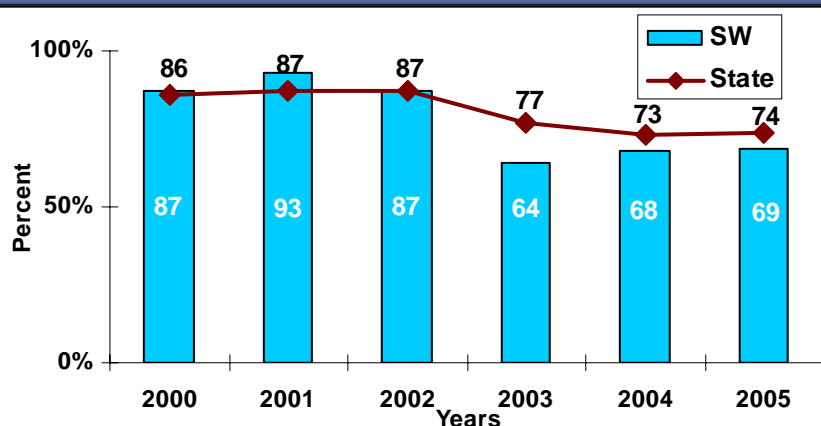
Insurance 2004-2005 ²	Number	% of Total
Total Insured	152,600	85.8%
Total Uninsured	25,200	14.2%
17 and Under	4,600	9.1%
18 to 34	12,400	25.8%
35 to 49	5,600	19.1%
50 to 64	2,800	11.7%
Insurance Type ²	Number	% of Total
Medicare	28,700	18.8%
CHIP*	5,900	12.9%
Insured, Service Not Covered	14,700	9.6%

*Children's Health Insurance Program, Ages 0 to 17

Up-to-Date at Age Two by Antigen 2005

County ⁴	4 DTaP	3 Polio	1 MMR	3 Hib	3 Hep B	1 Varicella	4:3:1:3:3	4:3:1:3:3:1
Beaver	87%	87%	73%	73%	87%	47%	53.3%	40.0%
Garfield	79%	100%	93%	93%	86%	79%	71.4%	57.1%
Iron	80%	93%	93%	93%	100%	100%	73.3%	63.3%
Kane	94%	100%	94%	94%	100%	77%	86.7%	66.7%
Washington	70%	90%	80%	86%	92%	72%	66.5%	62.5%
SWUPHD	73%	92%	83%	87%	93%	73%	68.5%	62.1%

Southwest LHD & State CASA UTD at Age 2 on 4:3:1:3:3 2000-2005⁴



Private VFC Providers Up-to-Date at Age Two (4:3:1:3:3)⁴

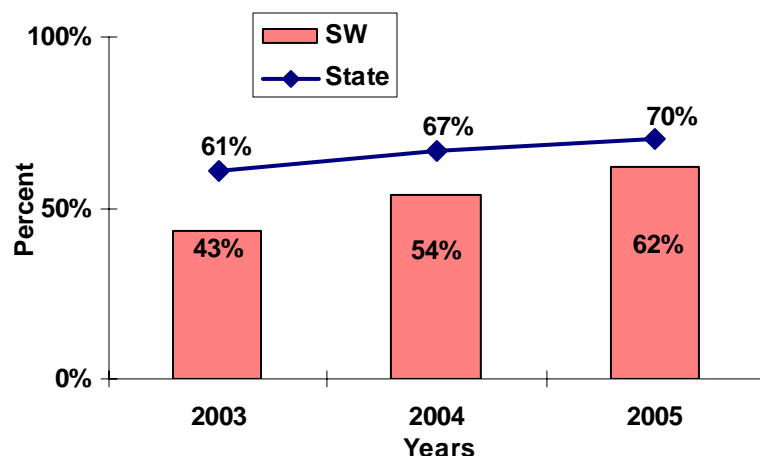
2001	33%
2002	20%
2003	61%
2004	31%
2005	57%

Health Care 2005⁴

Providers/Facilities	Number
Private VFC Providers	16
School Nurses	13
Public Medical Clinics	10
Hospitals ⁵	6
Long Term Care and Assisted Living Centers ⁶	20
Local Health District Offices	6

Kane County Hospital & Milford Valley Hospital NOT offering birthdose Hepatitis B vaccine.

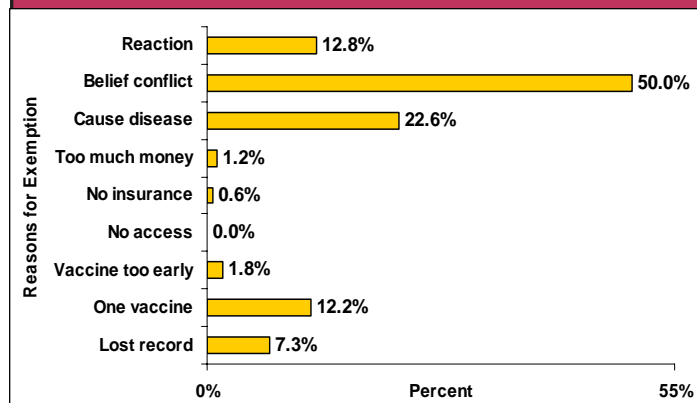
Southwest LHD CASA UTD at Age Two 4:3:1:3:3:1 2003-2005⁴



Adequately Immunized by School District 2005

Southwest	Beaver		Garfield		Iron		Kane		Washington	
	Adequate Immune	Total Exempt	Adequate Immune	Total Exempt	Adequate Immune	Total Exempt	Adequate Immune	Total Exempt	Adequate Immune	Total Exempt
School Entry Kindergarten ¹³	92.4%	1.5%	86.7%	8.3%	78.8%	4.4%	71.9%	3.4%	77.8%	4.7%
Second-Dose Measles (K-12) ¹¹	99.0%	0.7%	97.5%	2.5%	97.2%	2.8%	94.6%	5.4%	96.6%	3.1%

SW Exemption Survey 2004-2005⁴



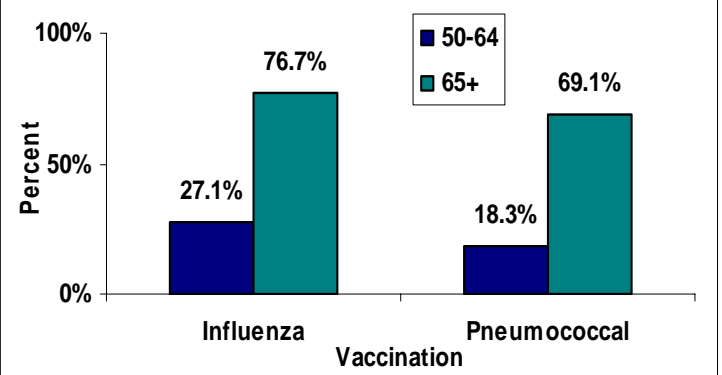
Child & School Health 2005

Group	Clinics/ Facilities	Enrollment
WIC Women ⁸	7	1,519
WIC Infants ⁸	7	1,526
WIC Children ⁸	7	2,496
Child Care ⁹	15	1,288
Head Start ¹⁰	16	464
Schools ¹¹	77	34,082

Immunized for Child Care 2005

Southwest	Adequately Immunized	Total Exemptions
Child Care Facilities and Preschools ⁹	85.7%	3.0%
Head Start Centers ¹⁰	90.7%	3.9%

Southwest Influenza & Pneumococcal Vaccination Rates¹⁴ 2005 Ages 50-64, 65+



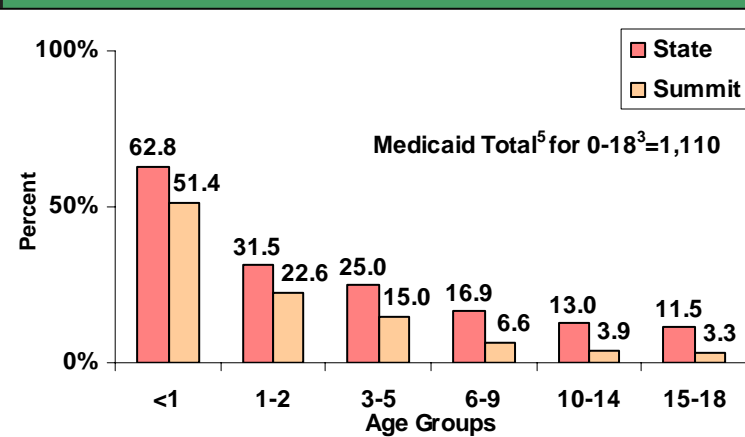
*Influenza=within past 12 months, pneumococcal=ever had

Population 2005 ¹	Number	% of Total
Total Population	36,417	
17 and Under	9,870	27.1%
18 to 34	9,210	25.3%
35 to 49	8,808	24.2%
50 to 64	6,356	17.5%
65 and Over	2,173	6.0%
Poverty 2004-2005 ²	Number	% of Total
Total 0-100% Poverty	2,400	6.6%
17 and Under	900	8.8%
18 to 34	800	8.5%
35 to 49	400	4.8%
50 to 64	100	2.5%
65 and Over	100	5.9%
Total 101-200% Poverty²	4,300	12.1%
17 and Under	1,500	14.9%
18 to 34	1,500	16.6%
35 to 49	1,000	11.3%
50 to 64	100	2.2%
65 and Over	200	11.0%



Population 2005 ¹	Number	% of Total
Total 0-18	10,443	
<1	568	5.4%
1-2	1,135	10.9%
3-5	1,629	15.6%
6-9	1,993	19.1%
10-14	2,779	26.6%
15-18	2,339	22.4%

Medicaid Eligible Population by Age 2005



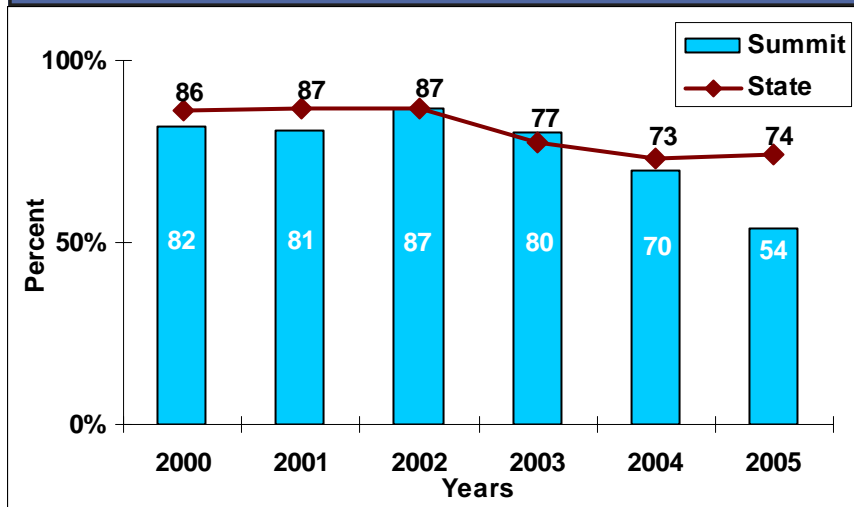
Insurance 2004-2005 ²	Number	% of Total
Total Insured	31,400	87.7%
Total Uninsured	4,400	12.3%
17 and Under	1,000	10.5%
18 to 34	2,200	24.6%
35 to 49	800	9.0%
50 to 64	300	5.5%
Insurance Type ²	Number	% of Total
Medicare	2,100	6.6%
CHIP*	200	1.9%
Insured, Service Not Covered	1,600	5.0%

*Children's Health Insurance Program, Ages 0 to 17

Up-to-Date at Age Two by Antigen 2005

County ⁴	4 DTaP	3 Polio	1 MMR	3 Hib	3 Hep B	1 Varicella	4:3:1:3:3	4:3:1:3:3:1
Summit	60%	72%	84%	71%	64%	84%	53.9%	52.8%

Summit County LHD & State CASA UTD at Age 2 on 4:3:1:3:3 2000-2005⁴



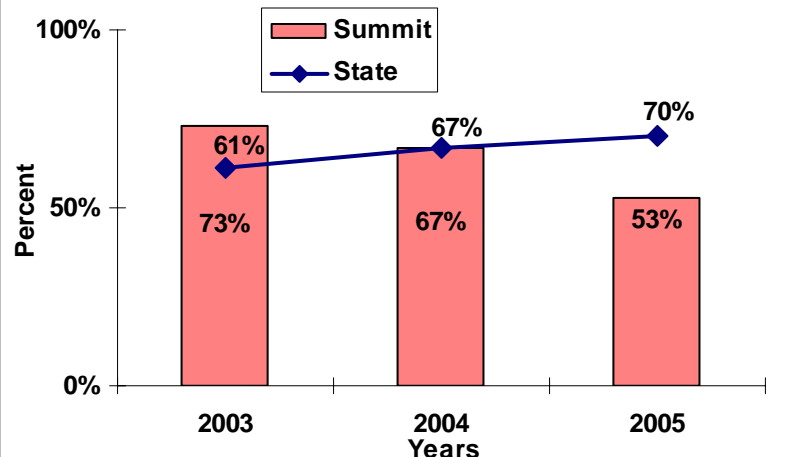
Private VFC Providers Up-to-Date at Age Two (4:3:1:3:3)⁴

2001	NA
2002	82%
2003	NA
2004	43%
2005	37%

Health Care 2005⁴

Providers/Facilities	Number
Private VFC Providers	4
School Nurses	4
Public Medical Clinics	2
Hospitals ⁵	0
Long Term Care and Assisted Living Centers ⁶	1
Local Health District Offices	3

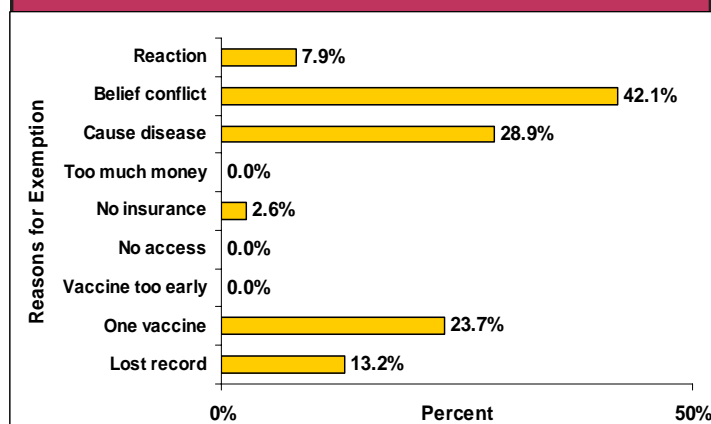
Summit County LHD CASA UTD at Age Two 4:3:1:3:3:1 2003-2005⁴



Adequately Immunized by School District 2005

Summit	North Summit		Park City		South Summit	
	Adequately Immunized	Total Exemptions	Adequately Immunized	Total Exemptions	Adequately Immunized	Total Exemptions
School Entry Kindergarten ¹³	75.0%	2.6%	73.2%	6.4%	79.3%	2.8%
Second-Dose Measles (K-12) ¹¹	98.4%	1.1%	95.1%	3.5%	98.7%	1.3%

Summit Exemption Survey 2004-2005⁴



Child & School Health 2005

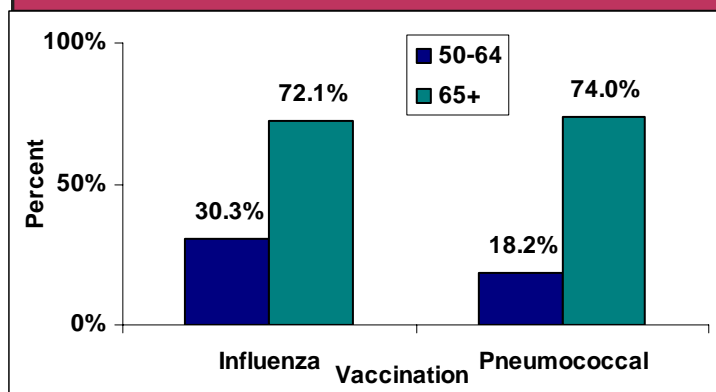
Group	Clinics/ Facilities	Enrollment
WIC Women ⁸	2	172
WIC Infants ⁸	2	170
WIC Children ⁸	2	331
Child Care ⁹	7	352
Head Start ¹⁰	+	+
Schools ¹¹	19	7,033

*Data for Summit County Head Start is included in Davis.

Immunized for Child Care 2005

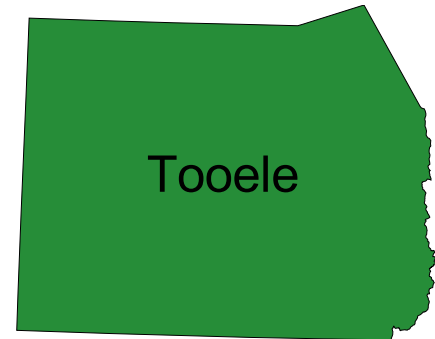
Summit	Adequately Immunized	Total Exemptions
Child Care Facilities and Preschools ⁹	87.8%	1.4%
Head Start Centers ¹⁰	Reported in Davis HS	Reported in Davis HS

Summit Influenza & Pneumococcal Vaccination Rates¹⁴ 2005 Ages 50-64, 65+

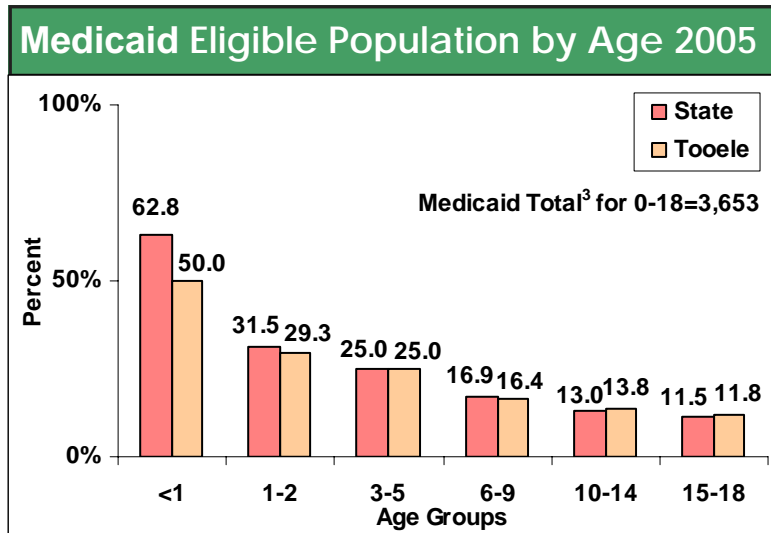


*Influenza=within past 12 months, pneumococcal=ever had

Population 2005 ¹	Number	% of Total
Total Population	51,835	
17 and Under	17,443	33.7%
18 to 34	14,681	28.3%
35 to 49	10,011	19.3%
50 to 64	6,133	11.8%
65 and Over	3,567	6.9%
Poverty 2004-2005 ²	Number	% of Total
Total 0-100% Poverty	5,200	10.3%
17 and Under	2,100	12.2%
18 to 34	1,500	10.2%
35 to 49	1,000	10.5%
50 to 64	300	5.1%
65 and Over	300	7.3%
Total 101-200%	15,400	30.1%
17 and Under	6,500	37.9%
18 to 34	4,500	30.8%
35 to 49	2,400	24.8%
50 to 64	700	11.9%
65 and Over	900	25.5%



Population 2005 ¹	Number	% of Total
Total 0-18	18,236	
<1	1,106	6.1%
1-2	2,168	11.9%
3-5	3,213	17.6%
6-9	4,078	22.4%
10-14	4,450	24.4%
15-18	3,221	17.7%



Insurance 2004-2005 ²	Number	% of Total
Total Insured	47,400	92.8%
Total Uninsured	3,600	7.2%
17 and Under	1,200	6.9%
18 to 34	1,500	10.6%
35 to 49	900	9.1%
50 to 64	*	*
Insurance Type ²	Number	% of Total
Medicare	4,300	9.1%
CHIP**	600	3.5%
Insured, Service Not Covered	4,700	10.0%

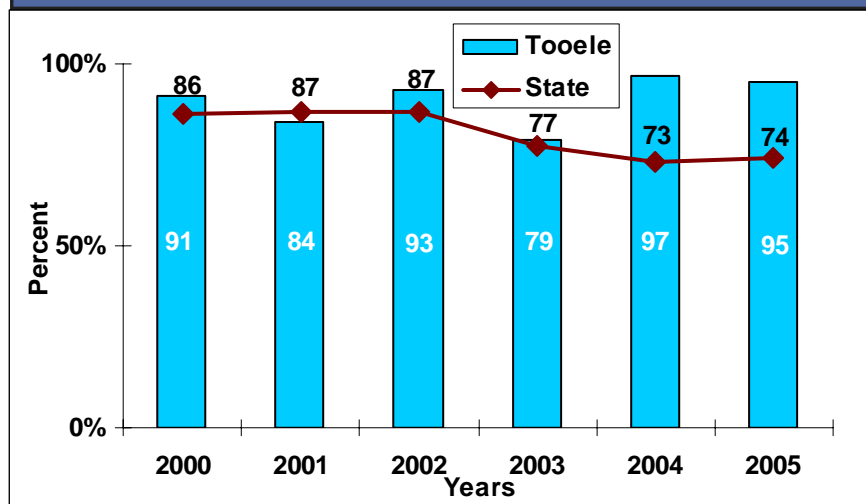
*Insufficient sample size for calculation of estimate.

**Children's Health Insurance Program, Ages 0 to 17

Up-to-Date at Age Two by Antigen 2005

County ⁴	4 DTaP	3 Polio	1 MMR	3 Hib	3 Hep B	1 Varicella	4:3:1:3:3	4:3:1:3:3:1
Tooele	95%	99%	98%	98%	99%	93%	95.1%	90.2%

Tooele County LHD & State CASA UTD at Age 2 on 4:3:1:3:3 2000-2005⁴



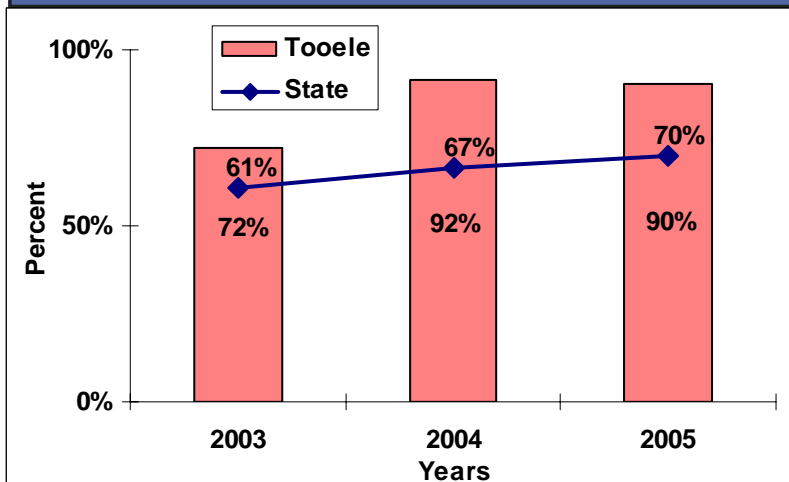
Private VFC Providers Up-to-Date at Age Two (4:3:1:3:3)⁴

2001	31%
2002	NA
2003	42%
2004	26%
2005	53%

Health Care 2005⁴

Providers/Facilities	Number
Private VFC Providers	10
School Nurses	6
Public Medical Clinics	0
Hospitals ⁵	1
Long Term Care and Assisted Living Centers ⁶	4
Local Health District Offices	1

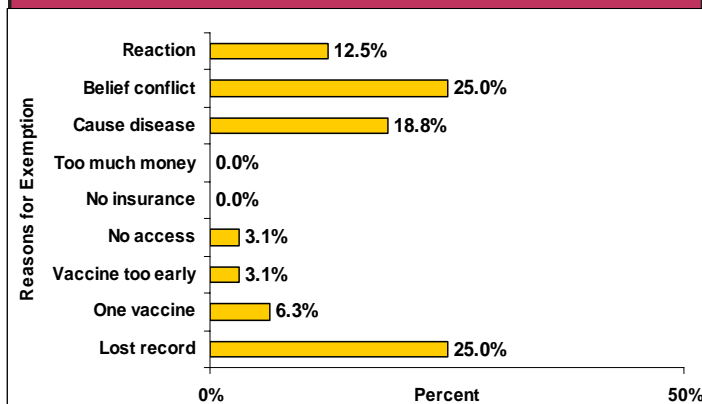
Tooele County LHD CASA UTD at Age Two 4:3:1:3:3:1 2003-2005⁴



Adequately Immunized by School District 2005

Tooele	Tooele	
	Adequately Immunized	Total Exemptions
School Entry Kindergarten ¹³	83.4%	2.5%
Second-Dose Measles (K-12) ¹¹	98.7%	1.3%

Tooele Exemption Survey 2004-2005⁴



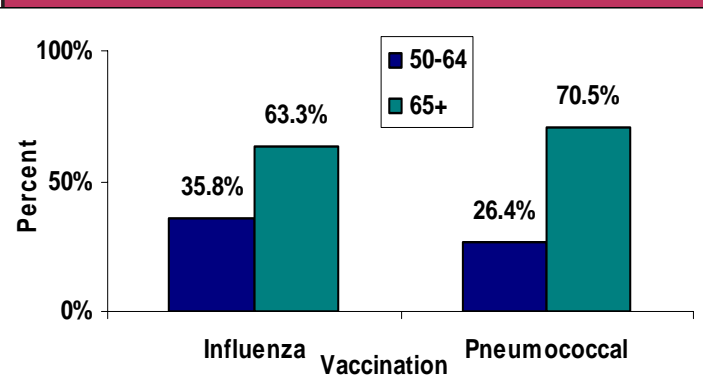
Child & School Health 2005

Group	Clinics/ Facilities	Enrollment
WIC Women ⁸	2	419
WIC Infants ⁸	2	463
WIC Children ⁸	2	837
Child Care ⁹	4	361
Head Start ¹⁰	4	165
Schools ¹¹	23	11,771

Immunized for Child Care 2005

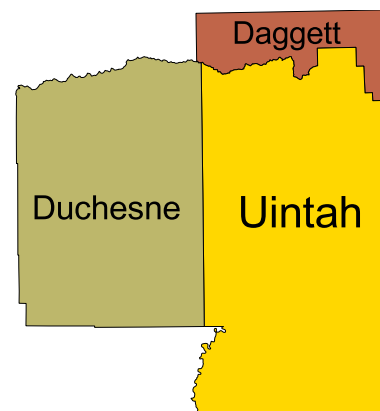
Tooele	Adequately Immunized	Total Exemptions
Child Care Facilities and Preschools ⁹	92.3%	0.8%
Head Start Centers ¹⁰	97.6%	0.6%

Tooele Influenza & Pneumococcal Vaccination Rates¹⁴ 2005 Ages 50-64, 65+



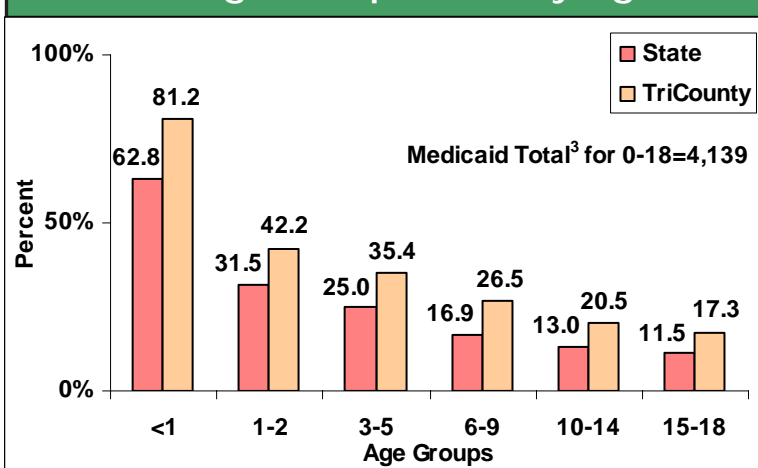
*Influenza=within past 12 months, pneumococcal=ever had

Population 2005 ¹	Number	% of Total
Total Population	42,327	
17 and Under	13,356	31.6%
18 to 34	10,738	25.4%
35 to 49	7,582	17.9%
50 to 64	6,260	14.8%
65 and Over	4,391	10.4%
Poverty 2004-2005 ²	Number	% of Total
Total 0-100% Poverty	4,000	9.4%
17 and Under	1,500	11.3%
18 to 34	1,000	9.5%
35 to 49	700	8.7%
50 to 64	300	4.6%
65 and Over	400	8.4%
Total 101-200% Poverty²	13,900	32.9%
17 and Under	5,100	38.4%
18 to 34	3,900	36.4%
35 to 49	1,900	24.3%
50 to 64	1,100	18.3%
65 and Over	1,800	41.9%



Population 2005 ¹	Number	% of Total
Total 0-18	14,180	
<1	815	5.7%
1-2	1,594	11.2%
3-5	2,226	15.7%
6-9	2,709	19.1%
10-14	3,636	25.6%
15-18	3,200	22.6%
Population 2005 ¹	Number	% of Total
Daggett	967	2.3%
Duchesne	15,043	35.5%
Uintah	26,317	62.2%

Medicaid Eligible Population by Age 2005



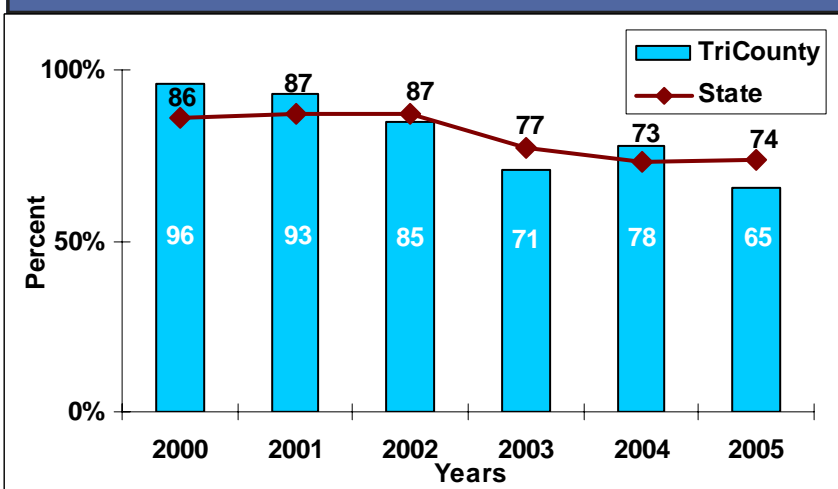
Insurance 2004-2005 ²	Number	% of Total
Total Insured	37,300	88.4%
Total Uninsured	4,900	11.6%
17 and Under	1,200	9.2%
18 to 34	2,100	19.5%
35 to 49	800	10.5%
50 to 64	600	10.6%
Insurance Type ²	Number	% of Total
Medicare	4,800	12.8%
CHIP*	500	4.2%
Insured, Service Not Covered	3,000	8.0%

*Children's Health Insurance Program, Ages 0 to 17

Up-to-Date at Age Two by Antigen 2005

County ⁴	4 DTaP	3 Polio	1 MMR	3 Hib	3 Hep B	1 Varicella	4:3:1:3:3	4:3:1:3:3:1
TriCHD	69%	86%	82%	86%	88%	77%	65.3%	61.6%

TriCounty LHD & State CASA UTD at Age 2 on 4:3:1:3:3 2000-2005⁴



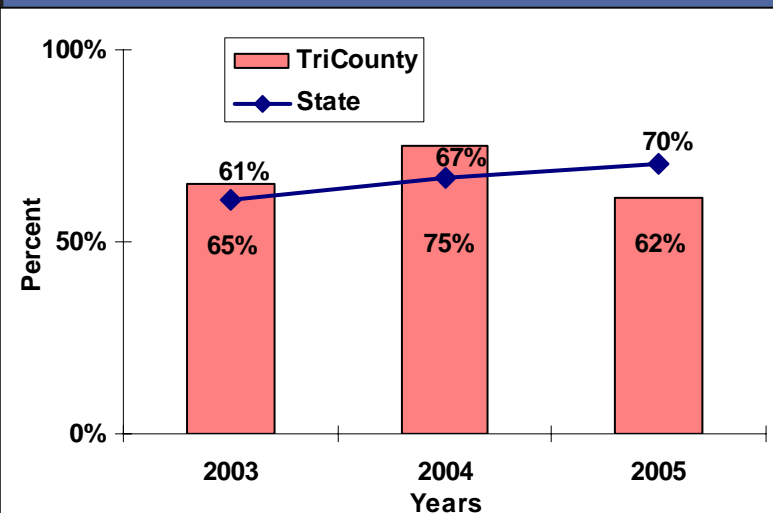
Private VFC Providers Up-to-Date at Age Two (4:3:1:3:3)⁴

2001	NA
2002	40%
2003	33%
2004	31%
2005	34%

Health Care 2005⁴

Providers/Facilities	Number
Private VFC Providers	4
School Nurses	3
Public Medical Clinics	1
Hospitals ⁵	2
Long Term Care and Assisted Living Centers ⁶	6
Local Health District Offices	4

TriCounty LHD CASA UTD at Age Two 4:3:1:3:3:1 2003-2005⁴

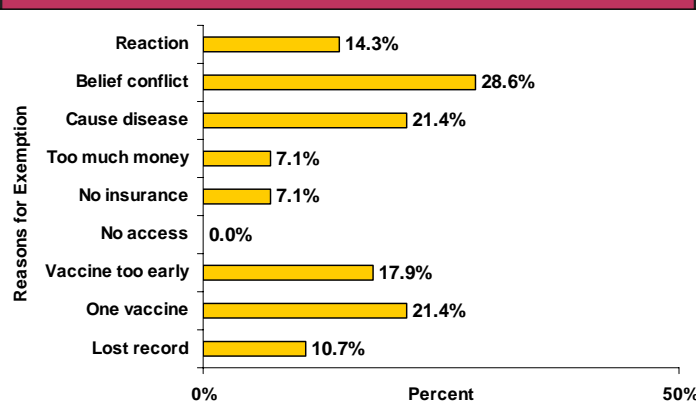


⁴Influenza=within past 12 months, pneumococcal=ever had

Adequately Immunized by School District 2005

TriCounty	Daggett		Duchesne		Uintah	
	Adequately Immunized	Total Exemptions	Adequately Immunized	Total Exemptions	Adequately Immunized	Total Exemptions
School Entry Kindergarten ¹³	100%	0.0%	72.6%	5.0%	80.1%	3.1%
Second-Dose Measles (K-12) ¹¹	99.4%	0.6%	97.6%	2.3%	98.6%	1.3%

TriCounty Exemption Survey 2004-2005⁴



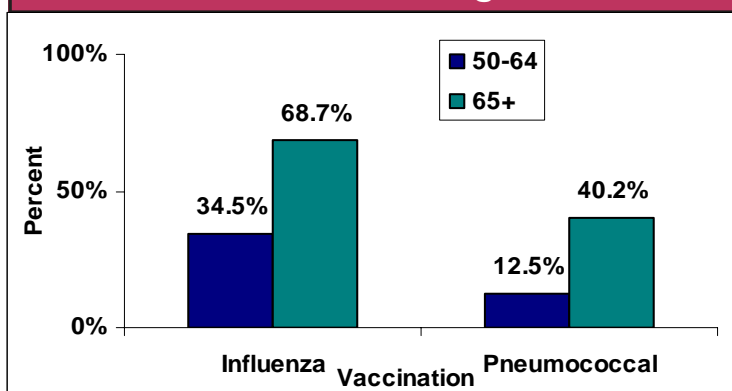
Child & School Health 2005

Group	Clinics/ Facilities	Enrollment
WIC Women ⁸	4	234
WIC Infants ⁸	4	257
WIC Children ⁸	4	433
Child Care ⁹	9	740
Head Start ¹⁰	10	226
Schools ¹¹	30	9,722

Immunized for Child Care 2005

TriCounty	Adequately Immunized	Total Exemptions
Child Care Facilities and Preschools ⁹	95.3%	0.5%
Head Start Centers ¹⁰	77.0%	0%

TriCounty Influenza & Pneumococcal Vaccination Rates¹⁴ 2005 Ages 50-64, 65+

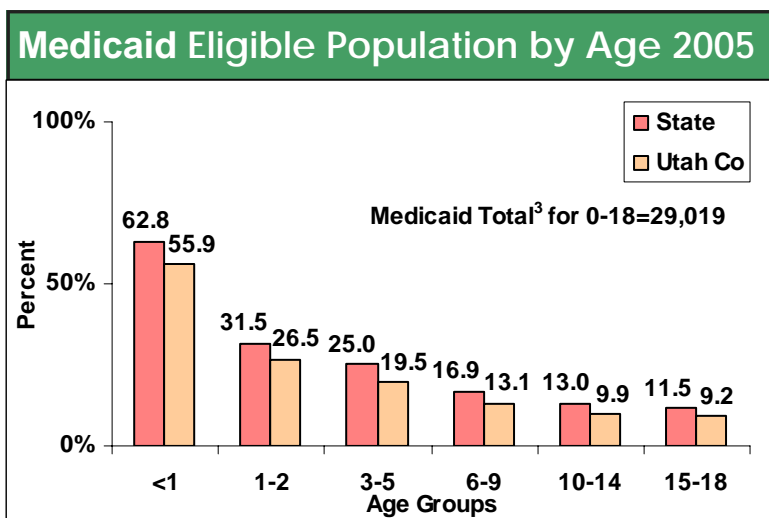


*Influenza=within past 12 months, pneumococcal=ever had

Population 2005 ¹	Number	% of Total
Total Population	453,977	
17 and Under	156,733	34.5%
18 to 34	159,488	35.1%
35 to 49	69,395	15.3%
50 to 64	41,807	9.2%
65 and Over	26,554	5.8%
Poverty 2004-2005 ²	Number	% of Total
Total 0-100% Poverty	51,700	11.6%
17 and Under	18,400	12.0%
18 to 34	25,500	16.1%
35 to 49	6,000	8.9%
50 to 64	700	1.7%
65 and Over	1,100	4.2%
Total 101-200% Poverty²	115,900	26.0%
17 and Under	43,500	28.3%
18 to 34	42,300	26.8%
35 to 49	15,400	22.7%
50 to 64	5,500	13.6%
65 and Over	9,100	34.9%



Population 2005 ¹	Number	% of Total
Total 0-18	163,281	
<1	11,398	7.0%
1-2	22,057	13.5%
3-5	31,574	19.3%
6-9	34,124	20.9%
10-14	36,784	22.5%
15-18	27,344	16.7%



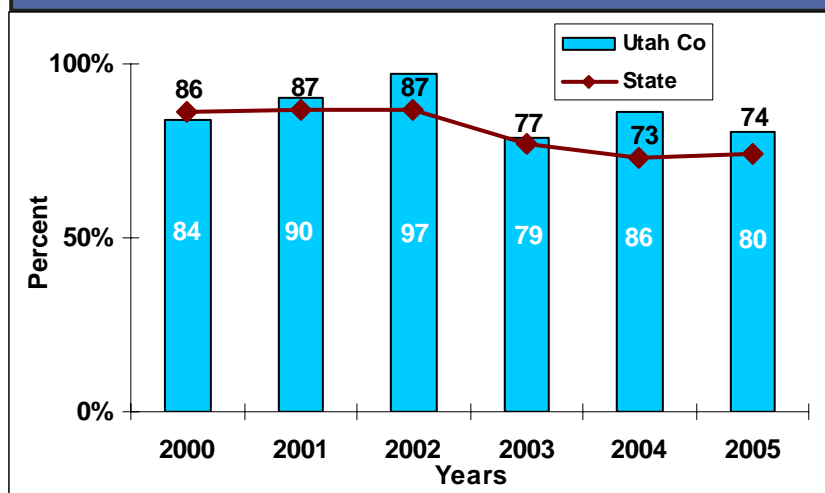
Insurance 2004-2005 ²	Number	% of Total
Total Insured	394,000	88.4%
Total Uninsured	51,800	11.6%
17 and Under	14,700	9.6%
18 to 34	23,300	14.8%
35 to 49	11,400	16.8%
50 to 64	2,300	5.8%
Insurance Type ²	Number	% of Total
Medicare	28,900	7.3%
CHIP*	4,500	3.2%
Insured, Service Not Covered	32,600	8.3%

*Children's Health Insurance Program, Ages 0 to 17

Up-to-Date at Age Two by Antigen 2005

County ⁴	4 DTaP	3 Polio	1 MMR	3 Hib	3 Hep B	1 Varicella	4:3:1:3:3	4:3:1:3:3:1
Utah Co	83%	94%	92%	95%	94%	84%	80.4%	75.2%

Utah County LHD & State CASA UTD at Age 2 on 4:3:1:3:3 2000-2005⁴



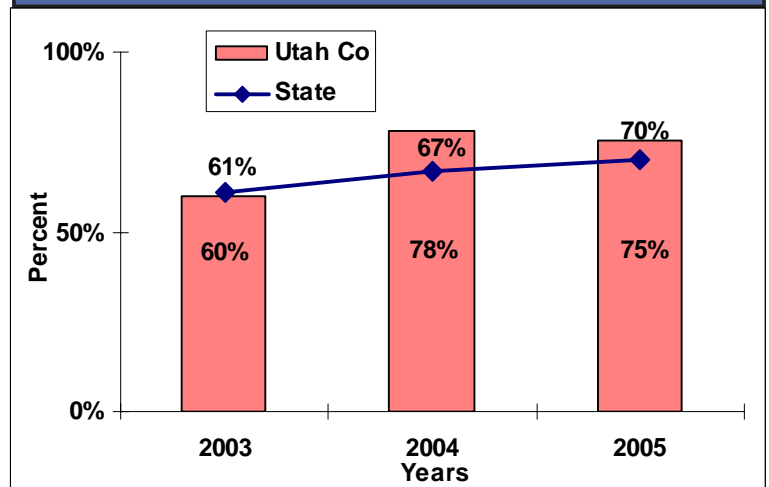
Private VFC Providers Up-to-Date at Age Two (4:3:1:3:3)⁴

2001	59%
2002	65%
2003	70%
2004	66%
2005	67%

Health Care 2005⁴

Providers/Facilities	Number
Private VFC Providers	41
School Nurses	28
Public Medical Clinics	2
Hospitals ⁵	6
Long Term Care and Assisted Living Centers ⁶	60
Local Health District Offices	4

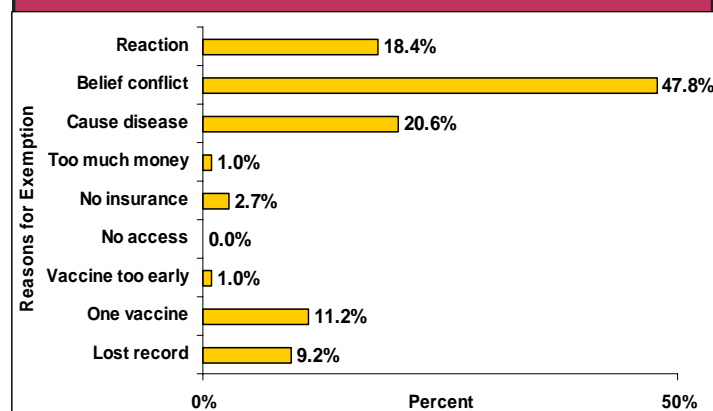
Utah County LHD CASA UTD at Age Two 4:3:1:3:3:1 2003-2005⁴



Adequately Immunized by School District 2005

Utah County	Alpine		Nebo		Provo	
	Adequately Immunized	Total Exemptions	Adequately Immunized	Total Exemptions	Adequately Immunized	Total Exemptions
School Entry Kindergarten ¹³	78.4%	4.5%	77.3%	5.1%	79.8%	4.2%
Second-Dose Measles (K-12) ¹¹	96.3%	3.4%	94.5%	3.7%	96.3%	2.8%

Utah Co Exemption Survey 2004-2005⁴



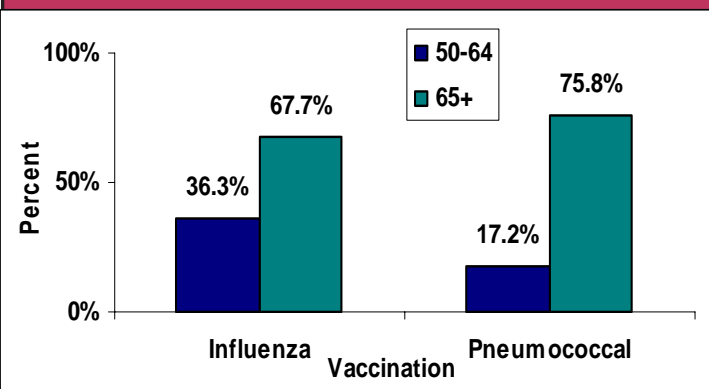
Child & School Health 2005

Group	Clinics/ Facilities	Enrollment
WIC Women ⁸	4	3,667
WIC Infants ⁸	4	3,683
WIC Children ⁸	4	6,039
Child Care ⁹	62	3,439
Head Start ¹⁰	37	877
Schools ¹¹	149	98,217

Immunized for Child Care 2005

Utah County	Adequately Immunized	Total Exemptions
Child Care Facilities and Preschools ⁹	87.3%	2.2%
Head Start Centers ¹⁰	89.7%	3.1%

Utah County Influenza & Pneumococcal Vaccination Rates¹⁴ 2005 Ages 50-64, 65+

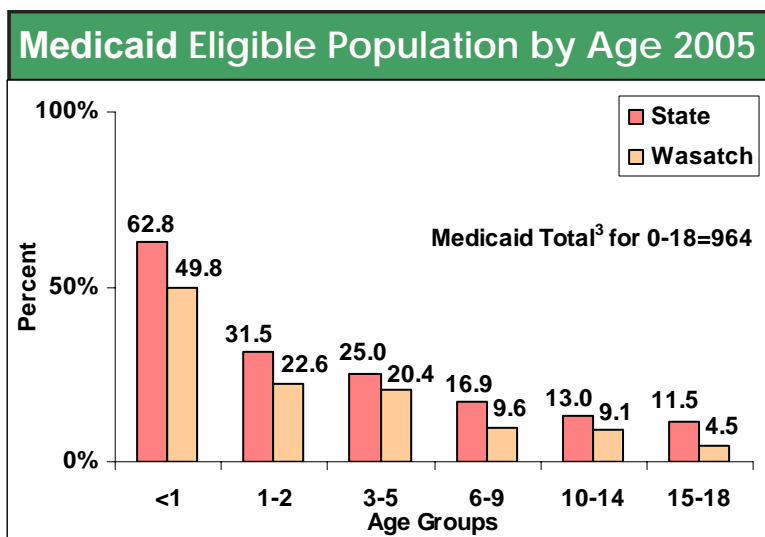


*Influenza=within past 12 months, pneumococcal=ever had

Population 2005 ¹	Number	% of Total
Total Population	20,138	
17 and Under	6,419	31.9%
18 to 34	5,527	27.4%
35 to 49	4,062	20.2%
50 to 64	2,615	13.0%
65 and Over	1,515	7.5%
Poverty 2004-2005 ²	Number	% of Total
Total 0-100% Poverty	1,500	7.6%
17 and Under	400	6.6%
18 to 34	700	13.5%
35 to 49	100	2.8%
50 to 64	100	5.2%
65 and Over	100	6.5%
Total 101-200% Poverty²	5,100	26.0%
17 and Under	1,800	29.2%
18 to 34	1,500	27.9%
35 to 49	1,000	24.0%
50 to 64	400	15.2%
65 and Over	400	24.6%



Population 2005 ¹	Number	% of Total
Total 0-18	6,769	
<1	412	6.1%
1-2	811	12.0%
3-5	1,128	16.7%
6-9	1,348	19.9%
10-14	1,684	24.9%
15-18	1,386	20.5%



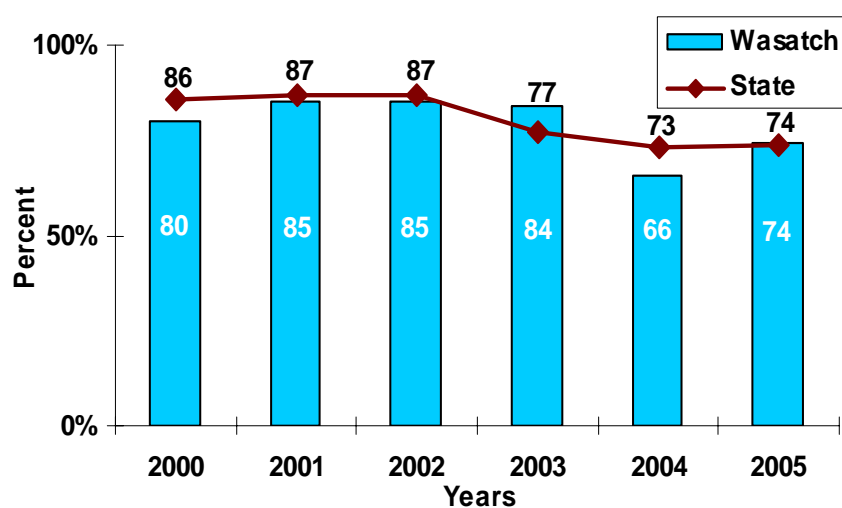
Insurance 2004-2005 ²	Number	% of Total
Total Insured	17,900	90.9%
Total Uninsured	1,800	9.1%
17 and Under	500	7.9%
18 to 34	800	14.2%
35 to 49	400	9.1%
50 to 64	200	6.7%
Insurance Type ²	Number	% of Total
Medicare	1,900	10.7%
CHIP*	400	6.4%
Insured, Service Not Covered	1,700	9.5%

*Children's Health Insurance Program, Ages 0 to 17

Up-to-Date at Age Two by Antigen 2005

County ⁴	4 DTap	3 Polio	1 MMR	3 Hib	3 Hep B	1 Varicella	4:3:1:3:3	4:3:1:3:3:1
Wasatch	80%	92%	84%	85%	93%	80%	74.3%	71.6%

Wasatch County LHD & State CASA UTD at Age 2 on 4:3:1:3:3 2000-2005⁴



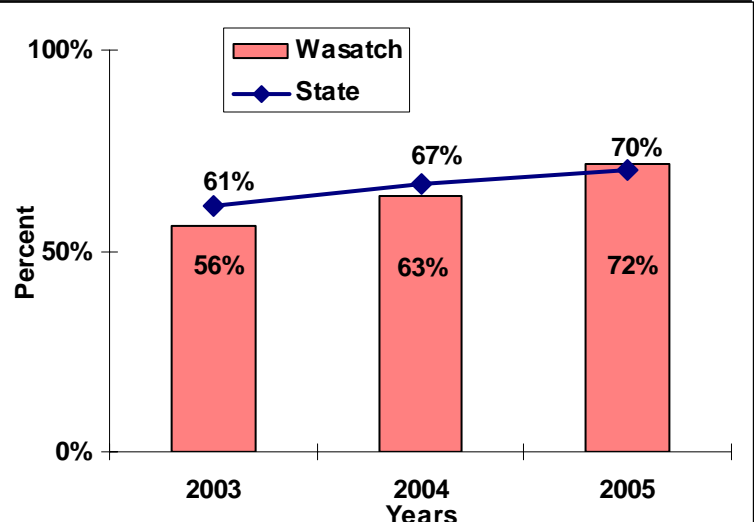
Private VFC Providers Up-to-Date at Age Two (4:3:1:3:3)⁴

2001	NA
2002	30%
2003	NA
2004	64%
2005	39%

Health Care 2005⁴

Providers/Facilities	Number
Private VFC Providers	2
School Nurses	1
Public Medical Clinics	0
Hospitals ⁵	1
Long Term Care and Assisted Living Centers ⁶	2
Local Health District Offices	1

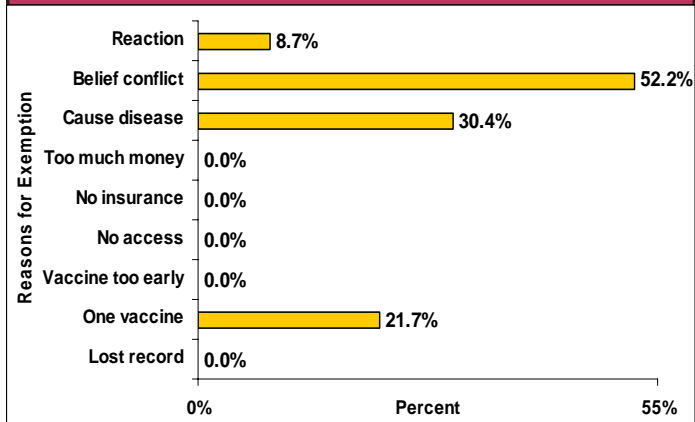
Wasatch LHD CASA UTD at Age Two 4:3:1:3:3:1 2003-2005⁴



Adequately Immunized by School District 2005

Wasatch	Wasatch	
	Adequately Immunized	Total Exemptions
School Entry Kindergarten ¹³	65.6%	4.3%
Second-Dose Measles (K-12) ¹¹	96.3%	3.0%

Wasatch Exemption Survey 2004-2005⁴



Child & School Health 2005

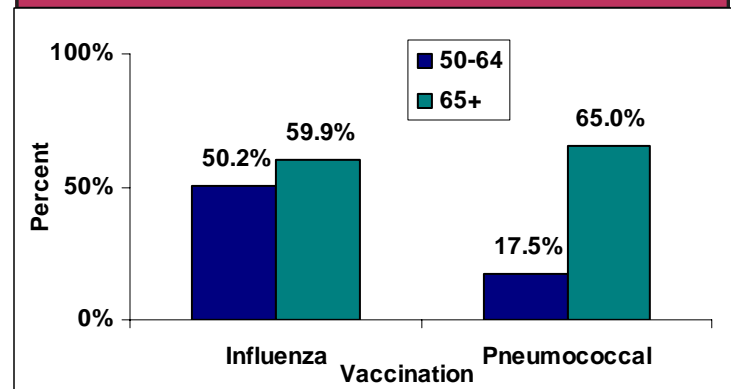
Group	Clinics/ Facilities	Enrollment
WIC Women ⁸	1	106
WIC Infants ⁸	1	114
WIC Children ⁸	1	203
Child Care ⁹	2	85
Head Start ¹⁰	+	+
Schools ¹¹	8	4,085

*Data for Wasatch Head Start reported with Utah County.

Immunized for Child Care 2005

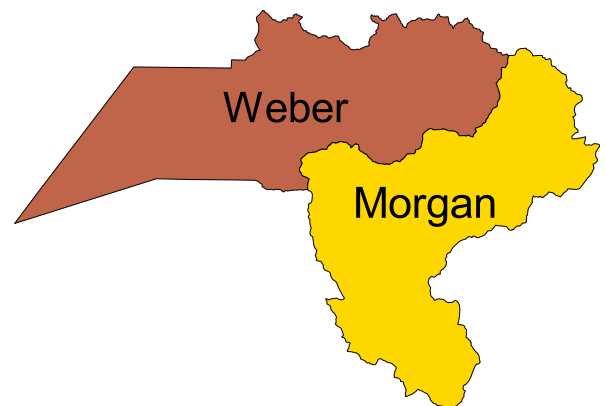
Wasatch	Adequately Immunized	Total Exemptions
Child Care Facilities and Preschools ⁹	96.5%	2.4%
Head Start Centers ¹⁰	Reported in Utah Co HS	Reported in Utah Co HS

Wasatch Influenza & Pneumococcal Vaccination Rates¹⁴ 2005 Ages 50-64, 65+

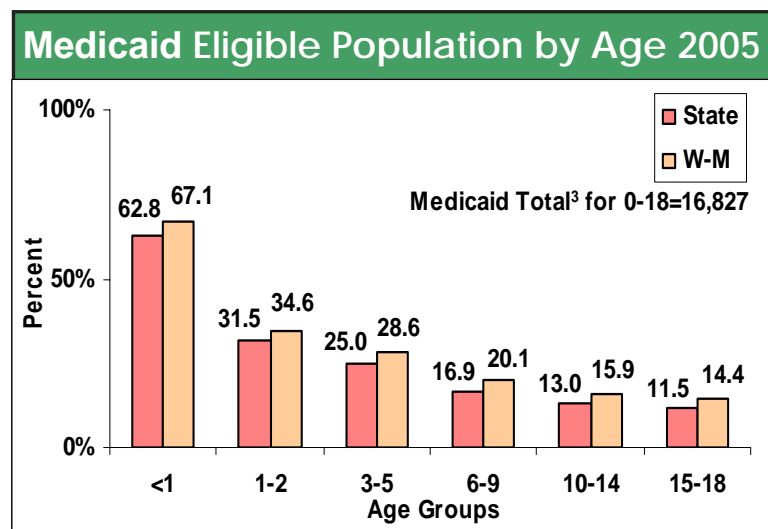


*Influenza=within past 12 months, pneumococcal=ever had

Population 2005 ¹	Number	% of Total
Total Population	221,232	
17 and Under	67,059	30.3%
18 to 34	59,958	27.1%
35 to 49	41,779	18.9%
50 to 64	30,572	13.8%
65 and Over	21,864	9.9%
Poverty 2004-2005 ²	Number	% of Total
Total 0-100% Poverty	25,800	11.8%
17 and Under	10,700	16.1%
18 to 34	9,400	15.7%
35 to 49	4,100	9.9%
50 to 64	900	3.0%
65 and Over	700	3.4%
Total 101-200% Poverty²	47,700	21.7%
17 and Under	20,700	31.0%
18 to 34	13,000	21.8%
35 to 49	5,600	13.4%
50 to 64	3,100	10.5%
65 and Over	5,200	24.0%



Population 2005 ¹	Number	% of Total
Total 0-18	70,364	
<1	4,184	5.9%
1-2	8,259	11.7%
3-5	12,090	17.2%
6-9	14,801	21.0%
10-14	17,279	24.6%
15-18	13,751	19.5%
Population 2005 ¹	Number	% of Total
Morgan	8,525	3.9%
Weber	212,707	96.1%



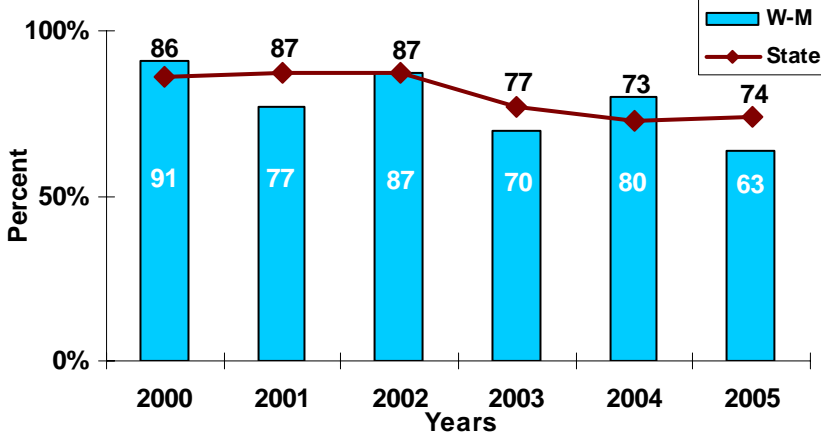
Insurance 2004-2005 ²	Number	% of Total
Total Insured	196,600	89.6%
Total Uninsured	22,900	10.4%
17 and Under	5,600	8.3%
18 to 34	11,800	19.8%
35 to 49	4,100	9.8%
50 to 64	1,700	5.8%
Insurance Type ²	Number	% of Total
Medicare	26,000	13.2%
CHIP*	2,000	3.3%
Insured, Service Not Covered	11,500	5.9%

*Children's Health Insurance Program, Ages 0 to 17

Up-to-Date at Age Two by Antigen 2005

County ⁴	4 DTaP	3 Polio	1 MMR	3 Hib	3 Hep B	1 Varicella	4:3:1:3:3	4:3:1:3:3:1
Morgan	NA	NA	NA	NA	NA	NA	NA	NA
Weber	76%	86%	90%	87%	85%	86%	63.4%	66.7%
WMHD	76%	86%	90%	87%	85%	86%	63.4%	66.7%

Weber-Morgan LHD & State CASA UTD at Age 2 on 4:3:1:3:3 2000-2005⁴



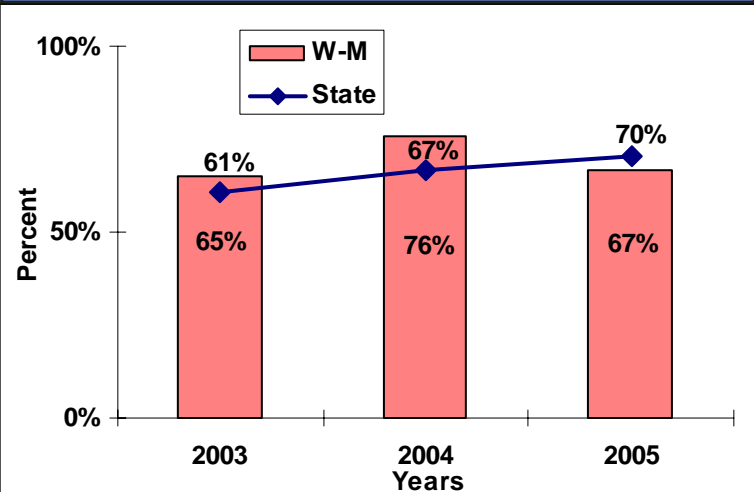
Private VFC Providers Up-to-Date at Age Two (4:3:1:3:3)⁴

2001	84%
2002	78%
2003	77%
2004	61%
2005	81%

Health Care 2005⁴

Providers/Facilities	Number
Private VFC Providers	19
School Nurses	13
Public Medical Clinics	1
Hospitals ⁵	2
Long Term Care and Assisted Living Centers ⁶	23
Local Health District Offices	2

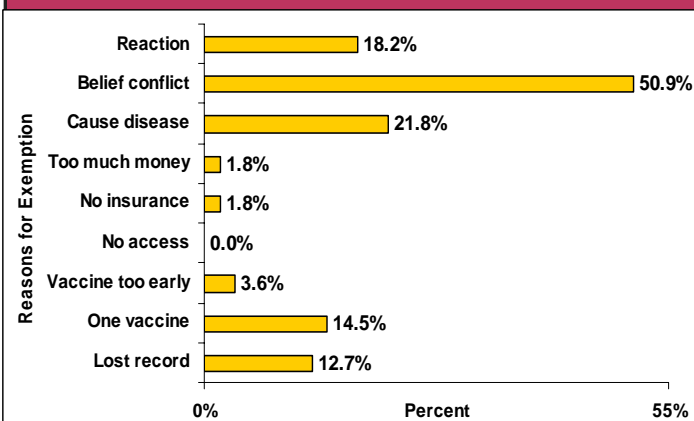
Weber-Morgan LHD CASA UTD at Age Two 4:3:1:3:3:1 2003-2005⁴



Adequately Immunized by School District 2005

Weber-Morgan	Morgan		Ogden		Weber	
	Adequately Immunized	Total Exemptions	Adequately Immunized	Total Exemptions	Adequately Immunized	Total Exemptions
School Entry Kindergarten ¹³	78.7%	2.1%	85.4%	0.8%	84.6%	1.5%
Second-Dose Measles(K-12) ¹¹	98.3%	1.3%	98.8%	1.0%	98.8%	1.0%

W-M Exemption Survey 2004-2005⁴



Child & School Health 2005

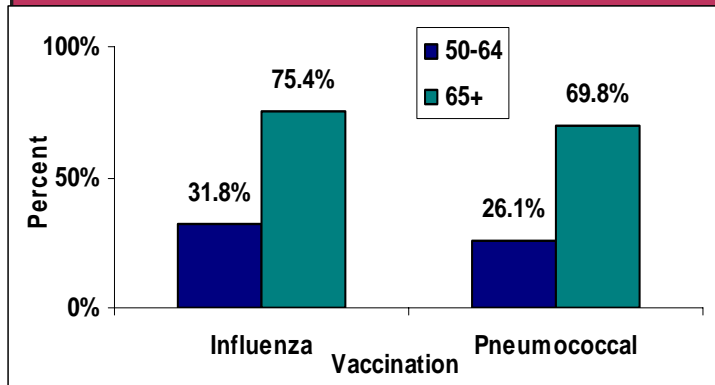
Group	Clinics/ Facilities	Enrollment
WIC Women ⁸	2	1,549
WIC Infants ⁸	2	1,586
WIC Children ⁸	2	3,128
Child Care ⁹	43	2,812
Head Start ^{10,+}	21	709
Schools ¹¹	95	43,597

* Head Start data for Weber-Morgan health district only includes data for Weber county. Morgan is included in Davis information.

Immunized for Child Care 2005

Weber-Morgan	Adequately Immunized	Total Exemptions
Child Care Facilities and Preschools ⁹	95.1%	1.0%
Head Start Centers ¹⁰	98.2%	0.4%

Weber-Morgan Influenza & Pneumococcal Vaccination Rates¹⁴ 2005 Ages 50-64, 65+



*Influenza=within past 12 months, pneumococcal=ever had

1. Governor's Office of Planning and Budget. Retrieved on May 22, 2006 from Utah Department of Health, Center for Health Data, Indicator-Based Information System for Public Health website: <http://ibis.health.utah.gov/>
2. Office of Public Health Assessment (2006, June). *2004-2005 Utah Health Status Survey*. [Data file]. Salt Lake City, UT: Utah Department of Health. **Note: numbers rounded to the nearest 100 persons.**
3. CHEC Medicaid program (2005). *Form CMS-416: Annual EPSDT Participation Report FFY2005*. Salt Lake City, UT: Utah Department of Health.
4. Utah Immunization Program. (n.d.). *2005 program data* [Data file]. Salt Lake City, UT: Utah Department of Health.
5. Office of Epidemiology. (n.d.). *2005 program data* [Data file]. Salt Lake City, UT: Utah Department of Health. <http://health.utah.gov/epi/anrpt/index.html>
6. Utah Immunization Program (November 2005). *Long Term Care 2005 Annual Report*. Salt Lake City, UT: Utah Department of Health.
7. Department of Health and Human Services, CDC. (n.d.). *National Immunization Survey* [Data file]. Retrieved May 24, 2006 from <http://www.cdc.gov/nip/coverage/default.htm#NIS>
8. Utah Women, Infants, and Children (WIC) Program. (n.d.). *Monthly Participation Reports 2005*. Salt Lake City, UT: Utah Department of Health. **Note: numbers reported are the average of the 12 months in calendar year 2005.**
9. Utah Immunization Program (November 2005). *Licensed and Reporting Unlicensed Child Care Centers and Preschools: Child Care Annual Summary Report*. Salt Lake City, UT: Utah Department of Health.
10. Utah Immunization Program (November 2005). *Head Start: Child Care Annual Summary Report*. Salt Lake City, UT: Utah Department of Health.
11. Utah Immunization Program (November 2005). *Public, Private, and Parochial 2nd Dose Measles (K-12): Second Dose Measles Vaccine Report*. Salt Lake City, UT: Utah Department of Health.
12. Utah State Office of Education (2005). *Annual Report of the State Superintendent of Public Instruction: Utah Public Education 2004-2005*. Retrieved June 12, 2006 from <http://www.schools.utah.gov/default/AnnualReport.pdf>
13. Utah Immunization Program (November 2005). *School Entry Annual Report*. Salt Lake City, UT: Utah Department of Health.
14. *Behavioral Risk Factor Surveillance System*. Retrieved on August 8, 2006 from Utah Department of Health, Center for Health Data, Indicator-Based Information System for Public Health website: <http://ibis.health.utah.gov/>

Immunization Program, Maternal and Child Health Bureau

Division of Community and Family Health Services
Utah Department of Health
PO Box 142001
Salt Lake City, Utah 84114-2001
Phone: (801) 538-9450
Fax: (801) 538-9440
Websites: www.immunize-utah.org
www.usiis.org

Utah Statewide Immunization Information System

Center for Health Data
Utah Department of Health
Helpline: (801) 538-3440
(800) 678-3440
Websites: www.immunize-utah.org
www.usiis.org

Data Resources Program, Maternal and Child Health Bureau

Division of Community and Family Health Services
Utah Department of Health
PO Box 142001
Salt Lake City, Utah 84114-2001
Phone: (801) 538-6916
Fax: (801) 538-6510

Child Adolescent School Health Program, Maternal and Child Health Bureau

Division of Community and Family Health Services
Utah Department of Health
PO Box 142001
Salt Lake City, Utah 84114-2001
Phone: (801) 538-9459
Fax: (801) 538-9409
Website: www.health.utah.gov/cash

Women Infants and Children Program, Maternal and Child Health Bureau

Division of Community and Family Health Services
Utah Department of Health
PO Box 141013
Salt Lake City, Utah 84114-1013
Phone: (801) 538-6620
Fax: (801) 538-6729
Website: www.health.utah.gov/wic

Other Resources Available

National Immunization Program
National Immunization Data and Statistics
Immunization Action Coalition
Healthy People 2010
Utah Department of Health
Utah Maternal and Child Health Bureau
Utah Office of Public Health Assessment
Office of Health Care Statistics
Utah Medicaid Program

www.cdc.org/nip
www.cdc.gov/nip/data/default.htm
www.immunize.org
www.healthypeople.gov
www.health.utah.gov
www.health.utah.gov/cfhs/mch
<http://ibis.health.utah.gov>
www.health.utah.gov/hda
www.health.utah.gov/medicaid

Utah County Childhood Immunization Study 2005-2006

In the fall of 2005, the Utah Department of Health, together with the Utah County Health Department, initiated a study of barriers to childhood immunizations in Utah County. The study was an extension of the Immunization Summit that brought together various stakeholders from throughout the state. Utah County was seen as a key beginning area for study due to its high rate of births and high proportion of children within its overall population.

Dr. Gloria Wheeler with the George W. Romney Institute of Public Management at Brigham Young University was contacted to help conduct the study. Dr. Wheeler and graduate students from her "Statistics for Managers" winter course organized the writing of a survey that would gather information on family attitudes, knowledge, beliefs and barriers to immunizations for children. Families who had children from 19 to 35 months were contacted to participate in the survey. Some of the major preliminary results are shown below. A full analysis of the survey will be completed later in 2006.

- A large majority (87.2%) of parents agreed or strongly agreed that their knowledge about when their child should receive vaccines was adequate.
- Three-quarters (75.8%) of parents agreed or strongly agreed that their health care provider had adequately discussed their child's vaccines with them.
- Less than one-tenth (9.2%) of parents agreed what they know about vaccines comes mostly from the Internet.
- Around three-fourths (77.2%) of parents agreed or strongly agreed that what they know about vaccines comes mostly from their health care provider.
- Few parents (12.0%) agreed or strongly agreed that their health insurance does not adequately cover vaccines.
- Just under one-half (40.7%) of parents surveyed had incomes less than \$45,000 per year.
- More than three-quarters (78.6%) of respondents disagreed or strongly disagreed that their child will likely be just as healthy without vaccines.
- Few parents (1.3%) agreed or strongly agreed that their religious beliefs do not support the immunization of children.

One-Month Voucher Program Women, Infants and Children and Immunization Collaboration

The Utah Immunization Program has been developing methods to increase the up-to-date immunization rates throughout the state. One collaborative approach was piloted in the Tooele County Health Department where the Women, Infants and Children (WIC) Program and the Utah Immunization Program implemented the WIC One-Month Voucher Program (OMV)* in December 2005 through June 2006.

The overall goal of the One-Month Voucher program is to increase up-to-date immunization rates among WIC participants. Major objectives to achieve this goal included: up-to-date immunization rates among WIC participants will increase by at least 10% by the end of the six-month pilot period; 100% of WIC participants in the OMV program will have an immunization record for each WIC child.

A WIC participant is generally issued vouchers for a three month time frame. These vouchers are used to purchase food and/or formula. Under the One-Month Voucher Program, a WIC participant who lacks an up-to-date immunization record is issued vouchers for a one month time frame. One-month vouchers will continue to be issued until the participant can present an up-to-date immunization record. If a participant chooses, the needed immunizations can be received at the time of visit and then vouchers for the full three month time frame are issued that day. The Tooele Health Department staff tracked the individual participants using a form developed for the One-Month Voucher Program.

Using CDP (Custom Data Processing) and the Utah Statewide Immunization Information System (USIIS), the Tooele Health Department WIC staff determined which clients were overdue for immunizations. For those not up-to-date clients, priority messages were sent to the WIC information system. When a client that had been identified as overdue came into the office, either immunizations were given or a one-month of voucher was given. To facilitate the administration of immunizations, a full-time WIC nurse was hired. This proved to be a vital part of the One-Month Voucher Program. Additionally, the Tooele Health Department has made plans to open up extended hours for immunizations for WIC clients.

Final data for the WIC One-Month Voucher pilot program were collected and processed during the summer of 2006 and presented at the annual Utah State WIC Conference in August of the same year.

** Nationally one month voucher programs have been in place for many years in Chicago, Louisiana, Tennessee, and Florida as examples. These areas believe that this is a big factor in sustaining high infant immunization rates as measured in NIS. New Mexico implemented this as part of their "Done by One" planning efforts.*

IMMUNIZATION REPORT FOR LONG TERM CARE FACILITIES

Long term care facilities are required to report influenza and pneumococcal immunization status of patients and the influenza and hepatitis B immunization status of employees to the Utah Immunization Program. Completion of the annual report is necessary to prevent sanctioning of a facility's license.

The report includes persons who are residents and employees of a facility between October 1st and December 31st of the survey year. The survey is to be completed on-line no later than January 31st of the next year. Facilities reporting are: hospitals (swing beds and transitional care beds), nursing care facilities, small health care facilities, and type I and type II assisted living facilities. All of the care facilities reported for 2005 (266 facilities).

A portion of the survey is reported here:

Influenza (flu) immunizations: given during the report time period

Pneumococcal immunizations: given at any time

Hepatitis B immunizations: given at any time to an employee having direct patient contact

STATE OF UTAH**ADULT IMMUNIZATIONS LONG TERM CARE FACILITIES 2005**

<i>State of Utah</i>	Number	Flu	Pneumococcal	Hepatitis B
Facilities	266	NA	NA	NA
Residents	14,030	72.61%	40.25%	NA
Employees				
All	16,342	45.75%	NA	NA
Direct Patient Care	10,901	NA	NA	58.77%

ADULT IMMUNIZATIONS LONG TERM CARE FACILITIES 2005

<i>Bear River HD</i>	Number	Flu	Pneumococcal	Hepatitis B
Facilities	18	NA	NA	NA
Residents	824	75.24%	61.77%	NA
Employees				
All	1256	48.25%	NA	NA
Direct Patient Care	948	NA	NA	45.99%

ADULT IMMUNIZATIONS LONG TERM CARE FACILITIES 2005

<i>Central HD</i>	Number	Flu	Pneumococcal	Hepatitis B
Facilities	15	NA	NA	NA
Residents	422	82.7%	59.24%	NA
Employees				
All	787	66.84%	NA	NA
Direct Patient Care	434	NA	NA	71.66%

ADULT IMMUNIZATIONS LONG TERM CARE FACILITIES 2005

<i>Davis County HD</i>	Number	Flu	Pneumococcal	Hepatitis B
Facilities	24	NA	NA	NA
Residents	1416	70.06%	37.01%	NA
Employees				
All	1592	42.09%	NA	NA
Direct Patient Care	1036	NA	NA	54.63%

ADULT IMMUNIZATIONS LONG TERM CARE FACILITIES 2005

<i>Salt Lake Valley HD</i>	Number	Flu	Pneumococcal	Hepatitis B
Facilities	87	NA	NA	NA
Residents	5773	70.05%	33.1%	NA
Employees				
All	5512	39.64%	NA	NA
Direct Patient Care	3597	NA	NA	50.35%

ADULT IMMUNIZATIONS LONG TERM CARE FACILITIES 2005

<i>Southeastern Utah HD</i>	Number	Flu	Pneumococcal	Hepatitis B
Facilities	6	NA	NA	NA
Residents	254	90.16%	66.67%	NA
Employees				
All	311	34.08%	NA	NA
Direct Patient Care	202	NA	NA	51.49%

ADULT IMMUNIZATIONS LONG TERM CARE FACILITIES 2005

<i>Southwest Utah HD</i>	Number	Flu	Pneumococcal	Hepatitis B
Facilities	20	NA	NA	NA
Residents	498	80.32%	32.93%	NA
Employees				
All	836	49.88%	NA	NA
Direct Patient Care	512	NA	NA	75.59%

ADULT IMMUNIZATIONS LONG TERM CARE FACILITIES 2005

<i>Summit County HD</i>	Number	Flu	Pneumococcal	Hepatitis B
Facilities	1	NA	NA	NA
Residents	29	86.21%	86.21%	NA
Employees				
All	28	25.0%	NA	NA
Direct Patient Care	14	NA	NA	99.99%

ADULT IMMUNIZATIONS LONG TERM CARE FACILITIES 2005

<i>Tooele County HD</i>	Number	Flu	Pneumococcal	Hepatitis B
Facilities	4	NA	NA	NA
Residents	141	93.62%	62.41%	NA
Employees				
All	431	64.73%	NA	NA
Direct Patient Care	341	NA	NA	79.12%

ADULT IMMUNIZATIONS LONG TERM CARE FACILITIES 2005

<i>TriCounty HD</i>	Number	Flu	Pneumococcal	Hepatitis B
Facilities	6	NA	NA	NA
Residents	213	78.40%	40.38%	NA
Employees				
All	838	57.64%	NA	NA
Direct Patient Care	533	NA	NA	79.74%

ADULT IMMUNIZATIONS LONG TERM CARE FACILITIES 2005

<i>Utah County HD</i>	Number	Flu	Pneumococcal	Hepatitis B
Facilities	60	NA	NA	NA
Residents	2619	71.94%	46.62%	NA
Employees				
All	2957	42.31%	NA	NA
Direct Patient Care	2051	NA	NA	58.26%

ADULT IMMUNIZATIONS LONG TERM CARE FACILITIES 2005

<i>Wasatch County HD</i>	Number	Flu	Pneumococcal	Hepatitis B
Facilities	2	NA	NA	NA
Residents	43	86.05%	30.23%	NA
Employees				
All	150	80.0%	NA	NA
Direct Patient Care	89	NA	NA	84.27%

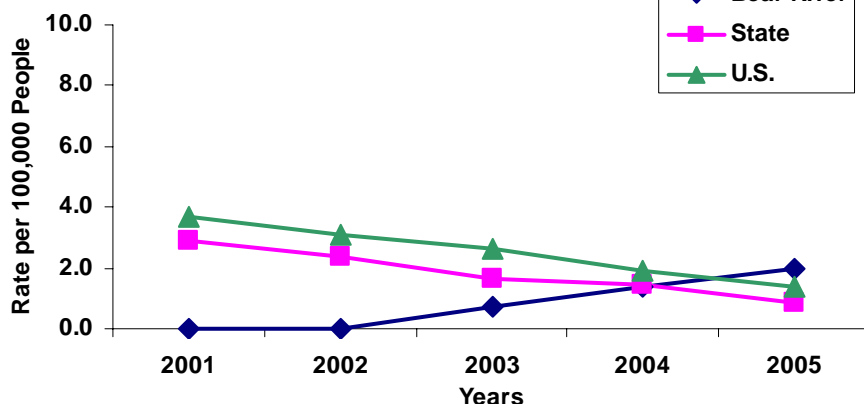
ADULT IMMUNIZATIONS LONG TERM CARE FACILITIES 2005

<i>Weber-Morgan HD</i>	Number	Flu	Pneumococcal	Hepatitis B
Facilities	23	NA	NA	NA
Residents	1798	72.75%	41.88%	NA
Employees				
All	1644	50.24%	NA	NA
Direct Patient Care	1144	NA	NA	68.27%

Appendix D Incidence of Disease

Hepatitis A, Hepatitis B and Pertussis are diseases that are preventable through immunization. Trends in vaccine preventable diseases are tracked with the intent that the data can be helpful in developing collaborative immunization campaign efforts. The following data was provided by the Office of Epidemiology at the Utah Department of Health for statewide and local health districts.

Hepatitis A Incidence 2001-2005
Bear River, State, & U.S.



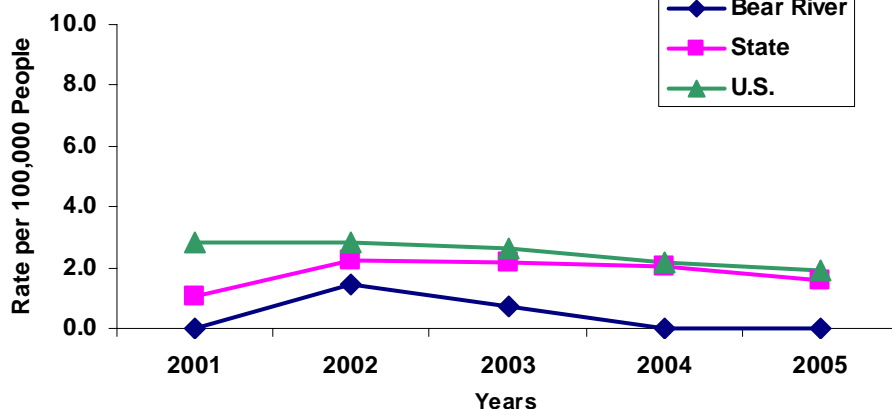
Hepatitis A

Year	US	State	BR
2001	3.7	2.9	0.0
2002	3.1	2.4	0.0
2003	2.6	1.6	0.7
2004	1.9	1.5	1.4
2005	1.4	0.8	2.0

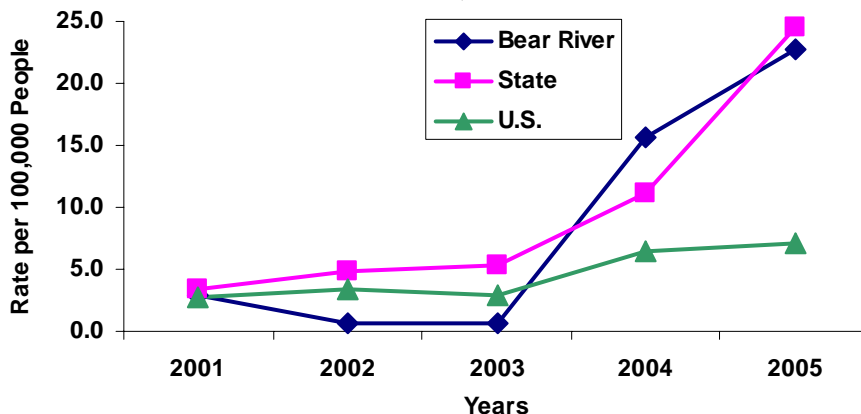
Hepatitis B

Year	US	State	BR
2001	2.8	1.1	0.0
2002	2.8	2.2	1.4
2003	2.6	2.2	0.7
2004	2.2	2.0	0.0
2005	1.9	1.6	0.0

Hepatitis B Incidence 2001-2005
Bear River, State & U.S.



Pertussis Incidence 2001-2005
Bear River, State & U.S.

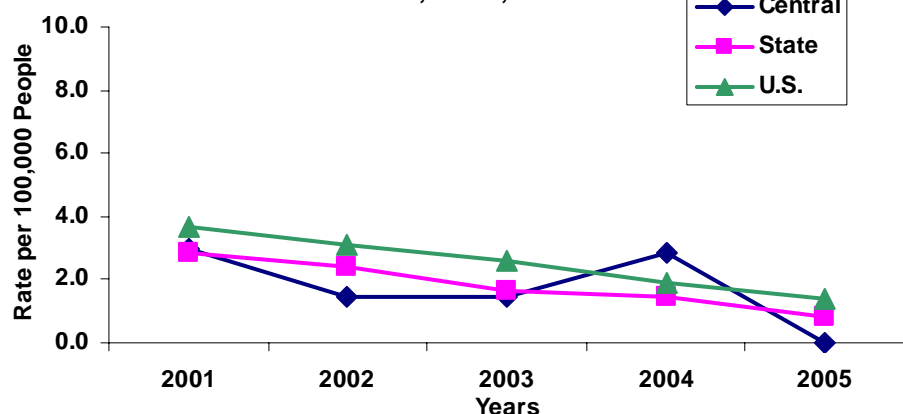


Pertussis

Year	US	State	BR
2001	2.7	3.4	2.9
2002	3.4	4.9	0.7
2003	4.0	5.3	0.7
2004	6.5	11.2	15.7
2005	7.1	24.4	22.7

Appendix D Incidence of Disease

Hepatitis A Incidence 2001-2005
Central, State, & U.S.

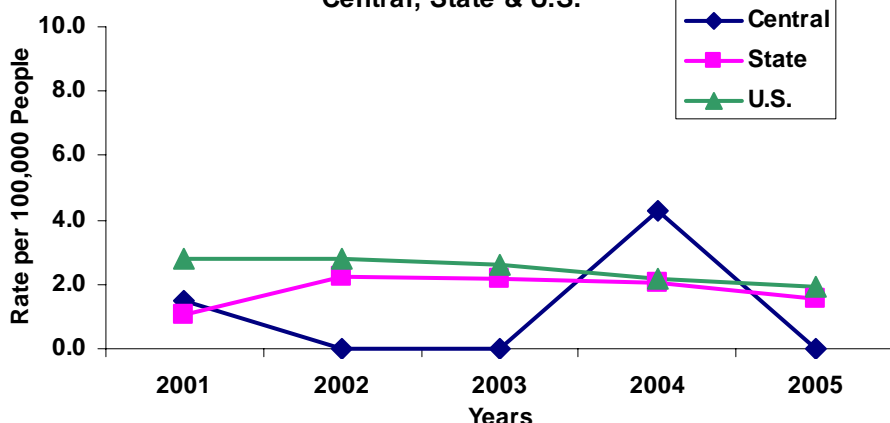


Hepatitis A			
Year	US	State	Central
2001	3.7	2.9	3.0
2002	3.1	2.4	1.4
2003	2.6	1.6	1.4
2004	1.9	1.5	2.8
2005	1.4	0.8	0.0

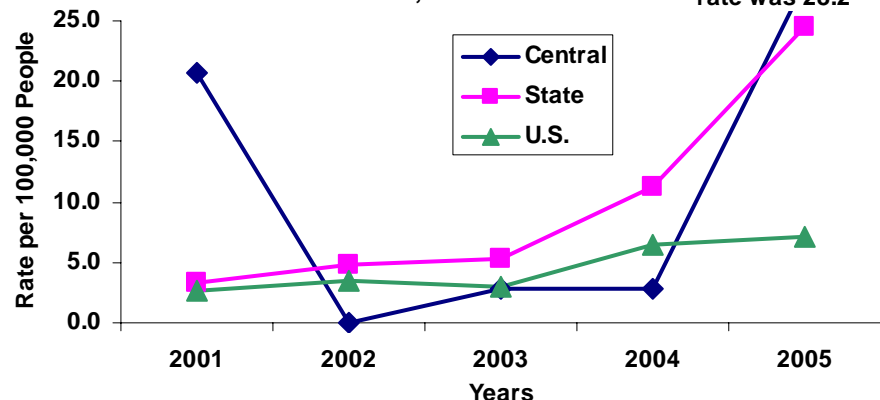
Hepatitis B

Year	US	State	Central
2001	2.8	1.1	1.5
2002	2.8	2.2	0.0
2003	2.6	2.2	0.0
2004	2.2	2.0	4.3
2005	1.9	1.6	0.0

Hepatitis B Incidence 2001-2005
Central, State & U.S.



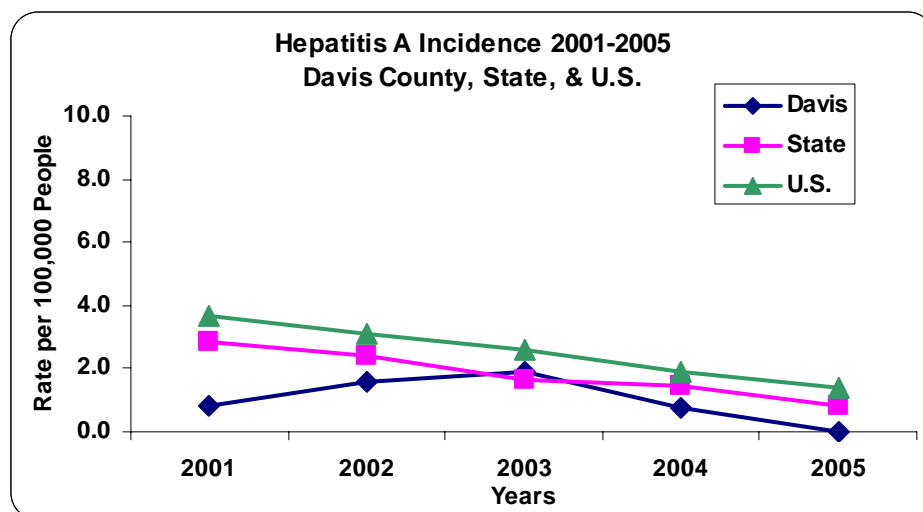
Pertussis Incidence 2001-2005
Central, State & U.S.



Pertussis

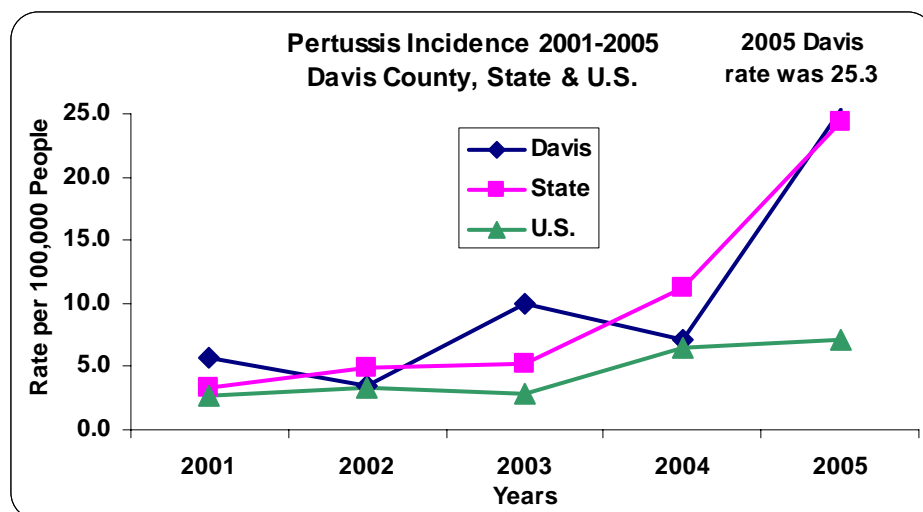
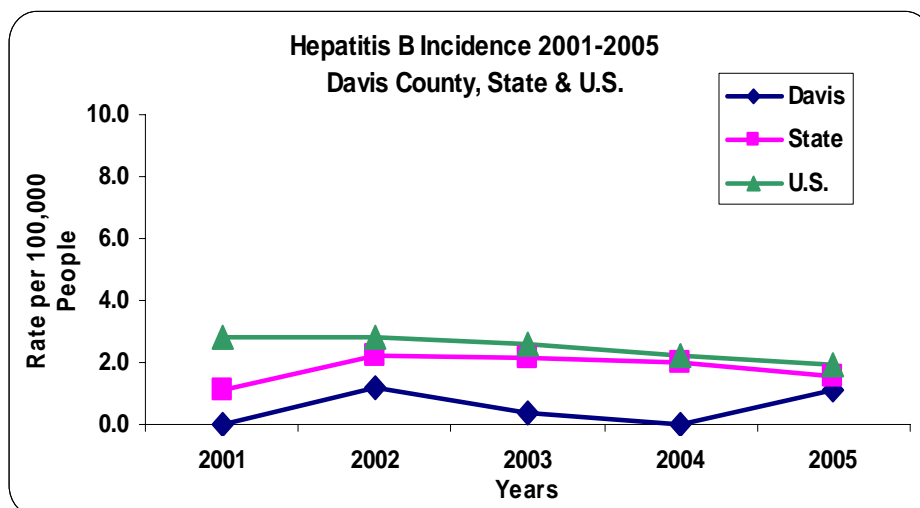
Year	US	State	Central
2001	2.7	3.4	20.7
2002	3.4	4.9	0.0
2003	4.0	5.3	2.9
2004	6.5	11.2	2.8
2005	7.1	24.4	28.2

Appendix D Incidence of Disease



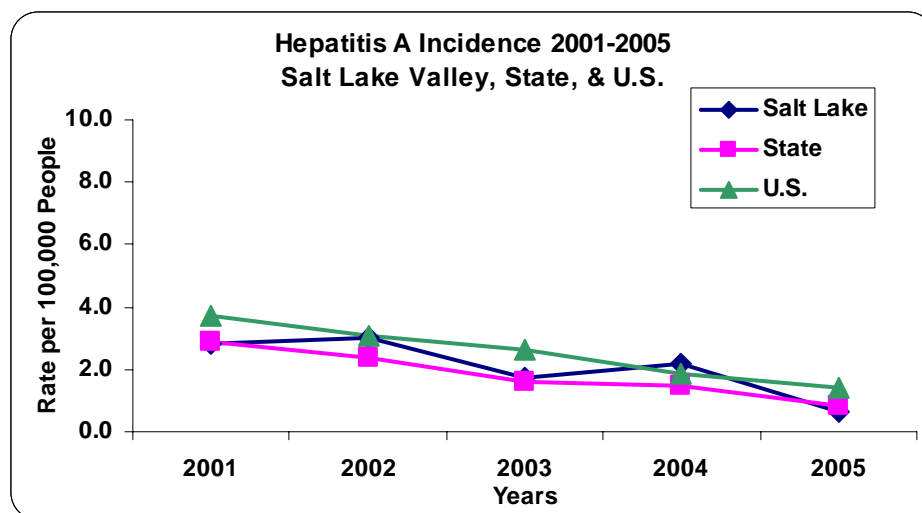
Hepatitis A			
Year	US	State	Davis
2001	3.7	2.9	0.8
2002	3.1	2.4	1.6
2003	2.6	1.6	1.9
2004	1.9	1.5	0.7
2005	1.4	0.8	0.0

Hepatitis B			
Year	US	State	Davis
2001	2.8	1.1	0.0
2002	2.8	2.2	1.2
2003	2.6	2.2	0.4
2004	2.2	2.0	0.0
2005	1.9	1.6	1.1



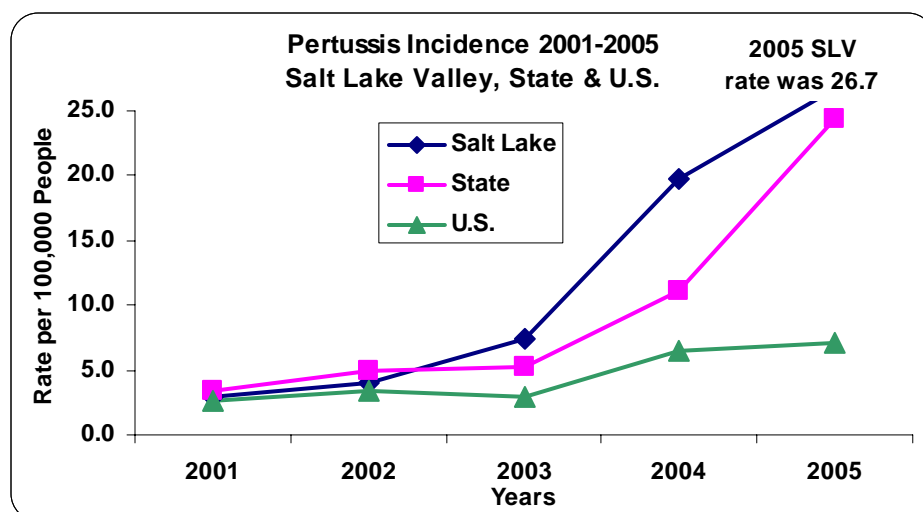
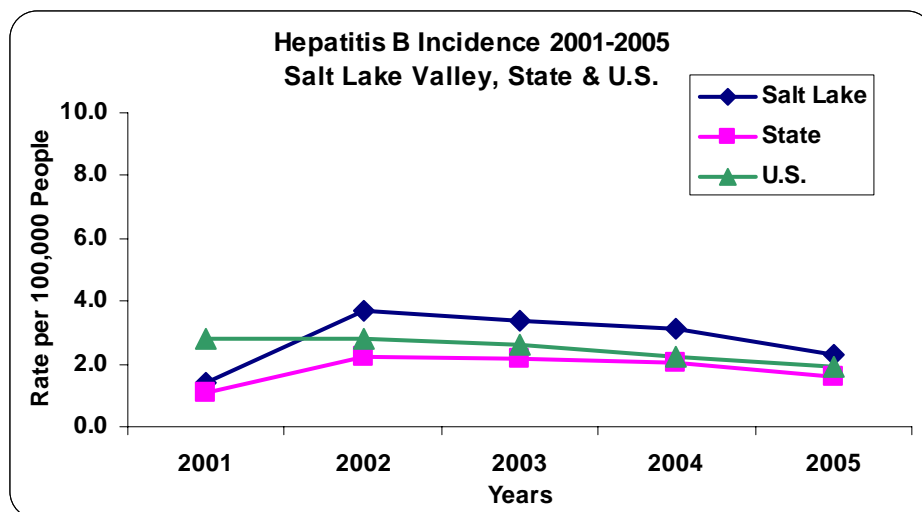
Pertussis			
Year	US	State	Davis
2001	2.7	3.4	5.7
2002	3.4	4.9	3.5
2003	4.0	5.3	9.9
2004	6.5	11.2	7.1
2005	7.1	24.4	25.3

Appendix D Incidence of Disease



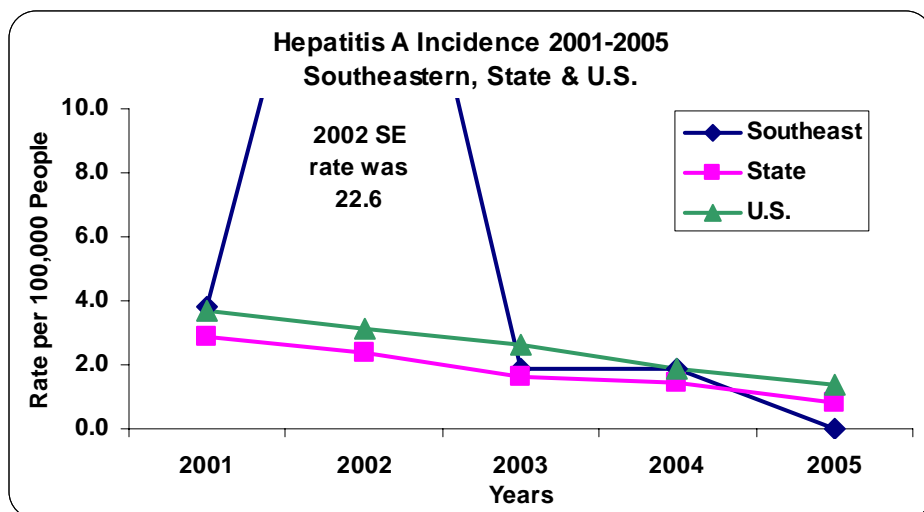
Hepatitis A			
Year	US	State	SLV
2001	3.7	2.9	2.8
2002	3.1	2.4	3.0
2003	2.6	1.6	1.7
2004	1.9	1.5	2.2
2005	1.4	0.8	0.6

Hepatitis B			
Year	US	State	SLV
2001	2.8	1.1	1.4
2002	2.8	2.2	3.7
2003	2.6	2.2	3.4
2004	2.2	2.0	3.1
2005	1.9	1.6	2.3



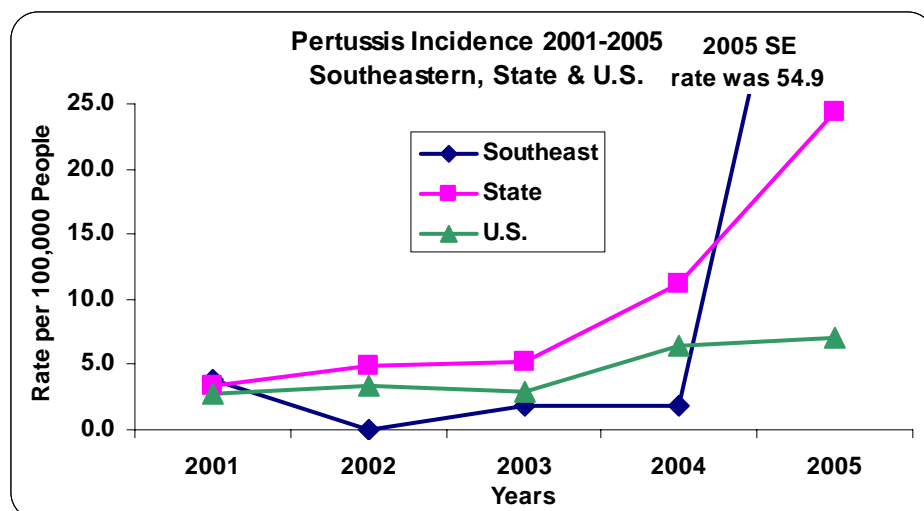
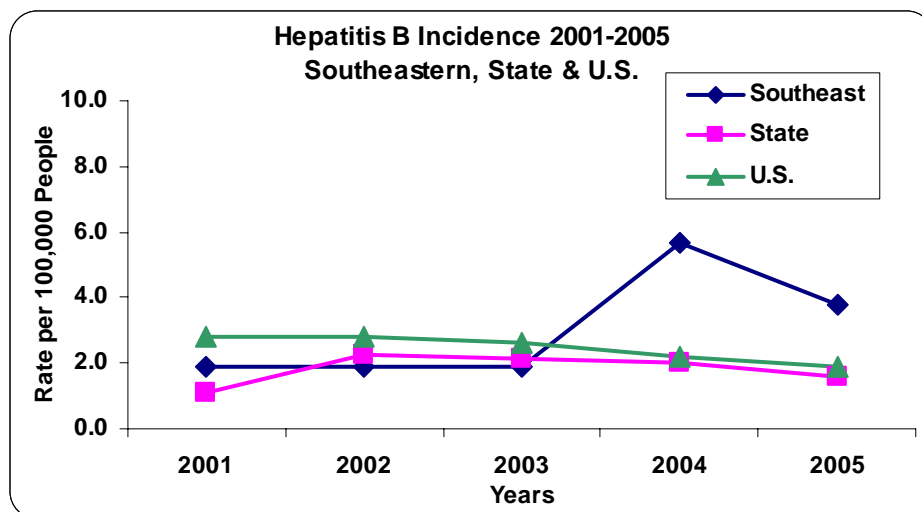
Pertussis			
Year	US	State	SLV
2001	2.7	3.4	2.9
2002	3.4	4.9	4.0
2003	4.0	5.3	7.4
2004	6.5	11.2	19.7
2005	7.1	24.4	26.7

Appendix D Incidence of Disease



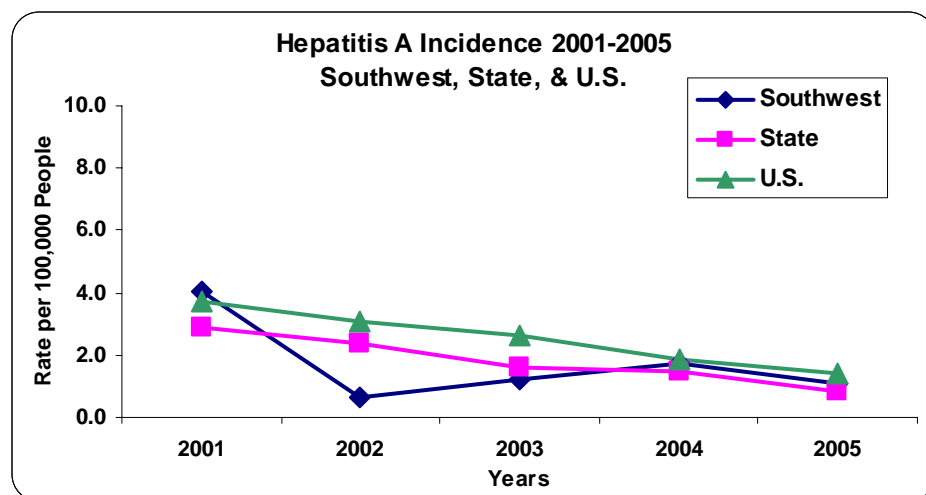
Hepatitis A			
Year	US	State	SE
2001	3.7	2.9	3.8
2002	3.1	2.4	22.6
2003	2.6	1.6	1.9
2004	1.9	1.5	1.9
2005	1.4	0.8	0.0

Hepatitis B			
Year	US	State	SE
2001	2.8	1.1	1.9
2002	2.8	2.2	1.9
2003	2.6	2.2	1.9
2004	2.2	2.0	5.7
2005	1.9	1.6	3.8



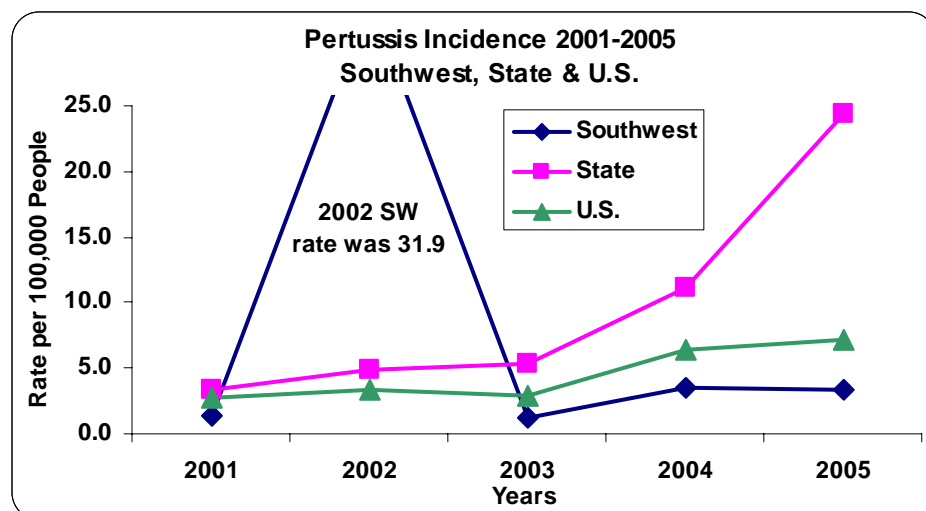
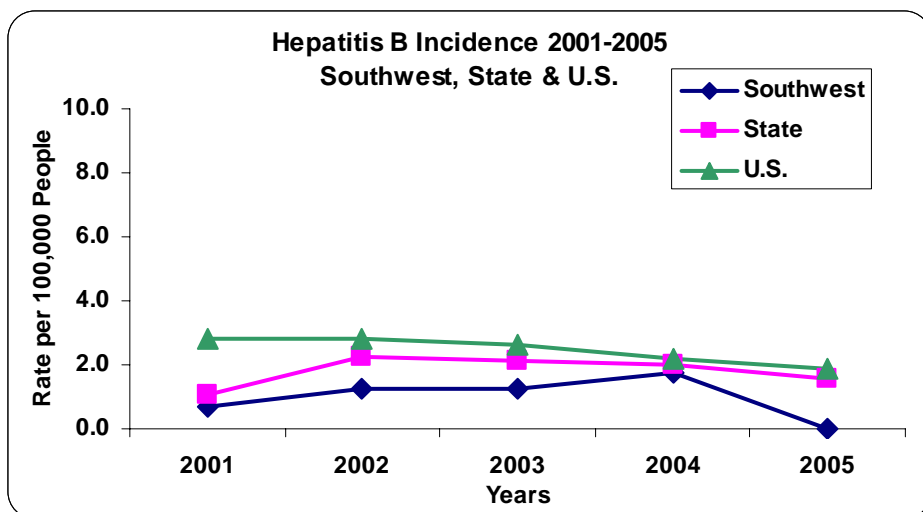
Pertussis			
Year	US	State	SE
2001	2.7	3.4	3.8
2002	3.4	4.9	0.0
2003	4.0	5.3	1.9
2004	6.5	11.2	1.9
2005	7.1	24.4	54.9

Appendix D Incidence of Disease



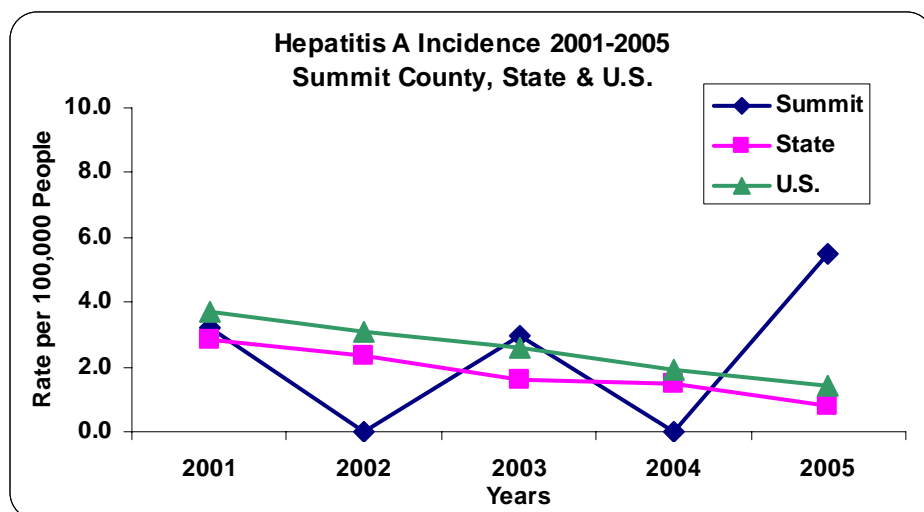
Hepatitis A			
Year	US	State	SW
2001	3.7	2.9	4.0
2002	3.1	2.4	0.6
2003	2.6	1.6	1.2
2004	1.9	1.5	1.7
2005	1.4	0.8	1.1

Hepatitis B			
Year	US	State	SW
2001	2.8	1.1	0.7
2002	2.8	2.2	1.3
2003	2.6	2.2	1.2
2004	2.2	2.0	1.7
2005	1.9	1.6	0.0



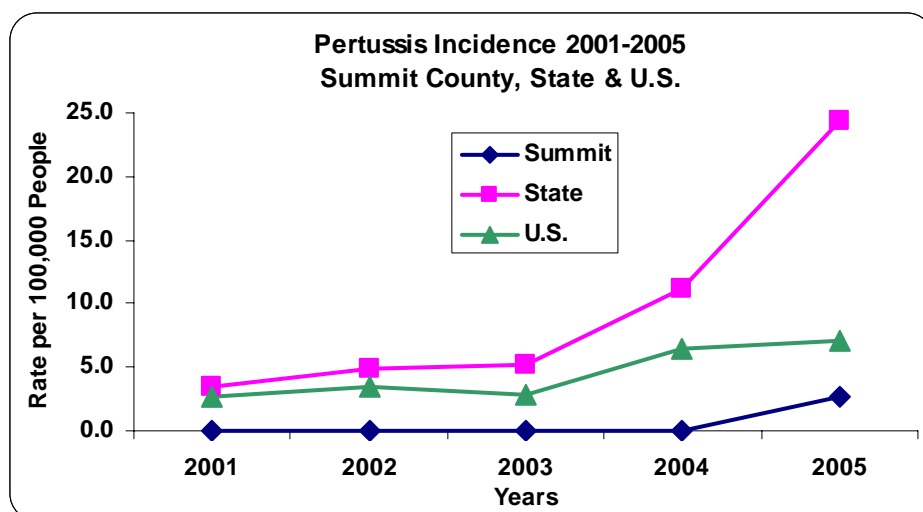
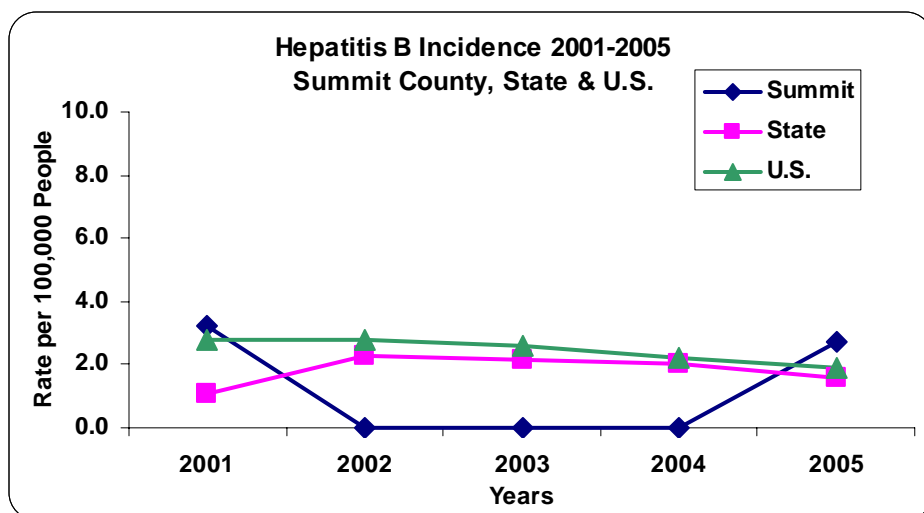
Pertussis			
Year	US	State	SW
2001	2.7	3.4	1.3
2002	3.4	4.9	33.2
2003	4.0	5.3	1.2
2004	6.5	11.2	3.5
2005	7.1	24.4	3.3

Appendix D Incidence of Disease



Hepatitis A			
Year	US	State	Sum
2001	3.7	2.9	3.2
2002	3.1	2.4	0.0
2003	2.6	1.6	2.9
2004	1.9	1.5	0.0
2005	1.4	0.8	5.5

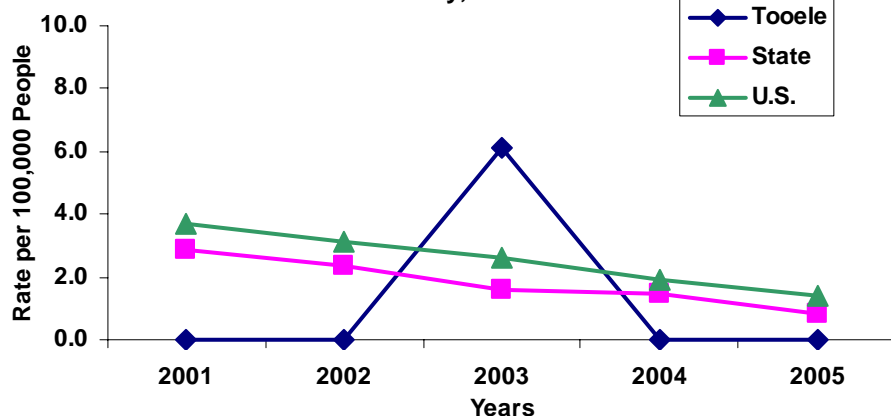
Hepatitis B			
Year	US	State	Sum
2001	2.8	1.1	3.2
2002	2.8	2.2	0.0
2003	2.6	2.2	0.0
2004	2.2	2.0	0.0
2005	1.9	1.6	2.7



Pertussis			
Year	US	State	Sum
2001	2.7	3.4	0.0
2002	3.4	4.9	0.0
2003	4.0	5.3	0.0
2004	6.5	11.2	0.0
2005	7.1	24.4	2.7

Appendix D Incidence of Disease

Hepatitis A Incidence 2001-2005
Tooele County, State & U.S.

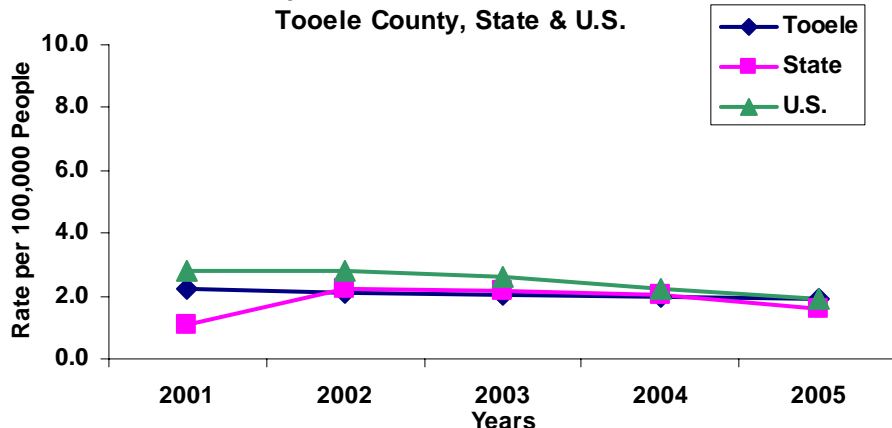


Hepatitis A			
Year	US	State	Tooele
2001	3.7	2.9	0.0
2002	3.1	2.4	0.0
2003	2.6	1.6	6.1
2004	1.9	1.5	0.0
2005	1.4	0.8	0.0

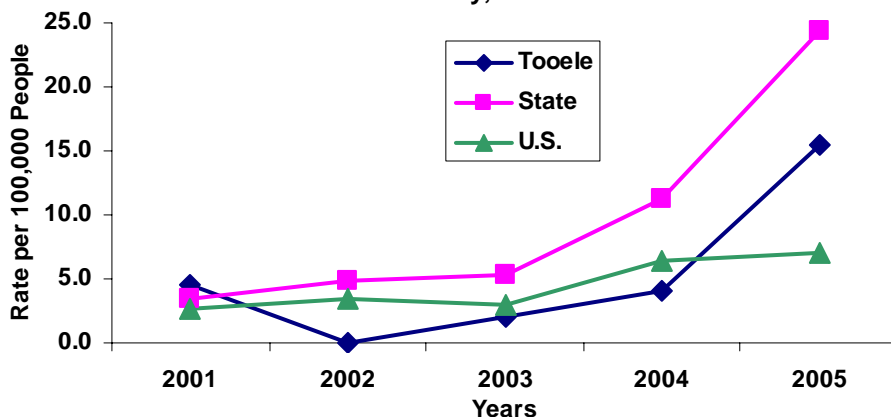
Hepatitis B

Year	US	State	Tooele
2001	2.8	1.1	2.3
2002	2.8	2.2	2.1
2003	2.6	2.2	2.0
2004	2.2	2.0	2.0
2005	1.9	1.6	1.9

Hepatitis B Incidence 2001-2005
Tooele County, State & U.S.



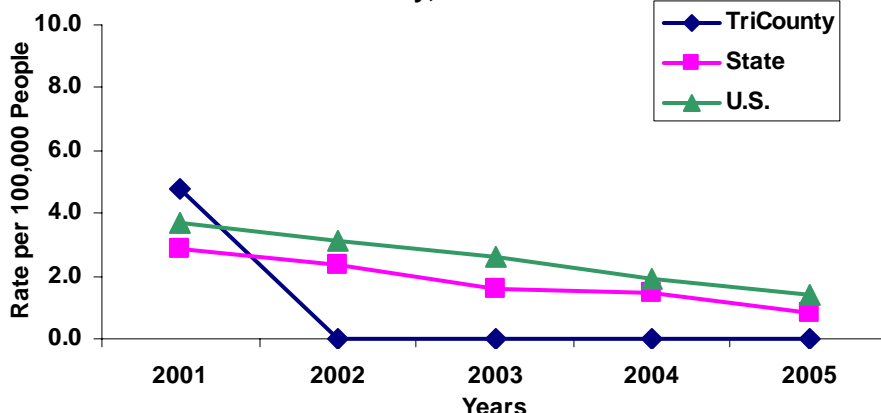
Pertussis Incidence 2001-2005
Tooele County, State & U.S.



Pertussis			
Year	US	State	Tooele
2001	2.7	3.4	4.5
2002	3.4	4.9	0.0
2003	4.0	5.3	2.0
2004	6.5	11.2	4.0
2005	7.1	24.4	15.4

Appendix D Incidence of Disease

Hepatitis A Incidence 2001-2005
TriCounty, State & U.S.



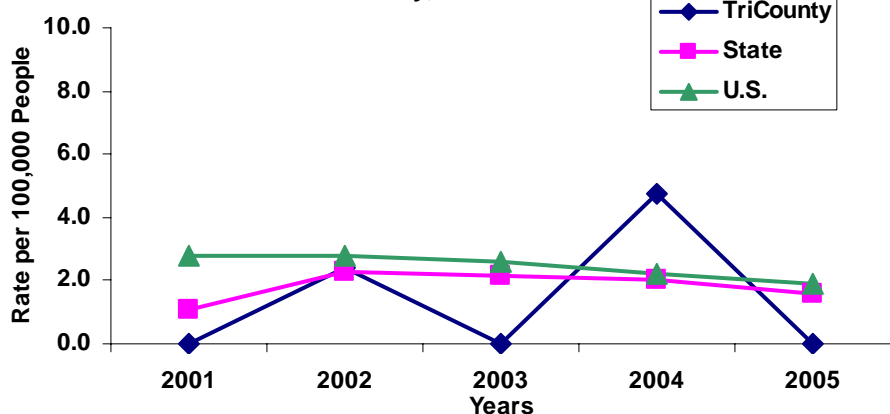
Hepatitis A

Year	US	State	TriCo
2001	3.7	2.9	4.8
2002	3.1	2.4	0.0
2003	2.6	1.6	0.0
2004	1.9	1.5	0.0
2005	1.4	0.8	0.0

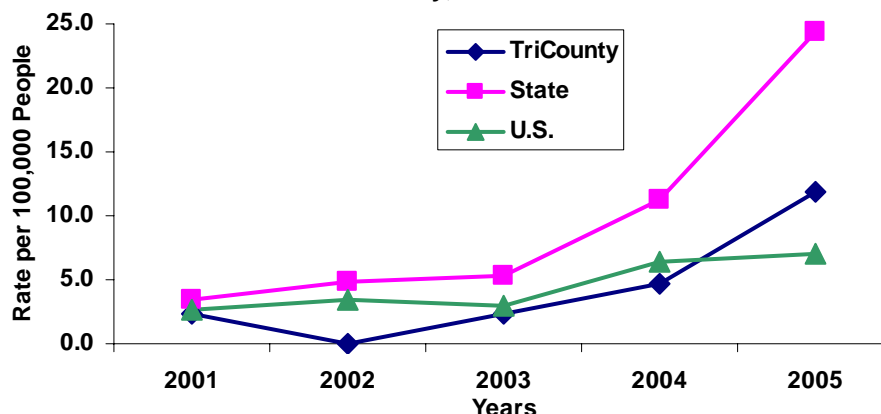
Hepatitis B

Year	US	State	TriCo
2001	2.8	1.1	0.0
2002	2.8	2.2	2.4
2003	2.6	2.2	0.0
2004	2.2	2.0	4.7
2005	1.9	1.6	0.0

Hepatitis B Incidence 2001-2005
TriCounty, State & U.S.



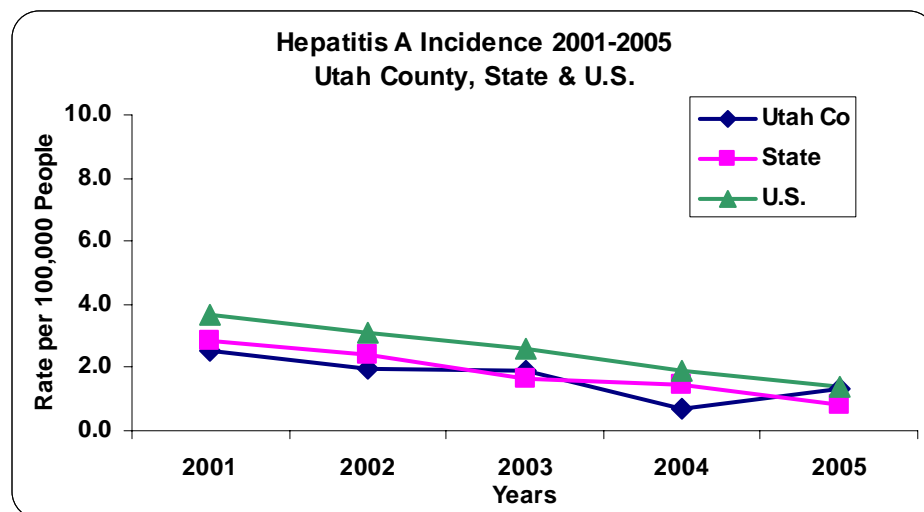
Pertussis Incidence 2001-2005
TriCounty, State & U.S.



Pertussis

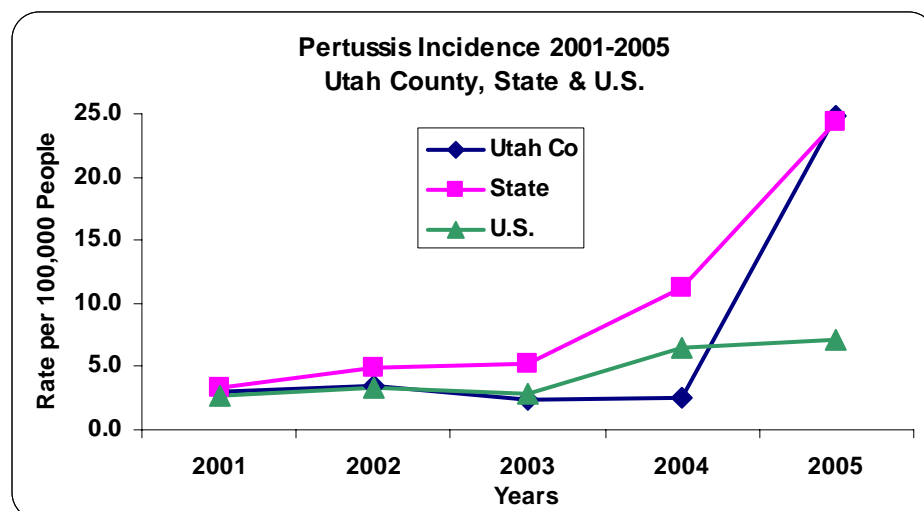
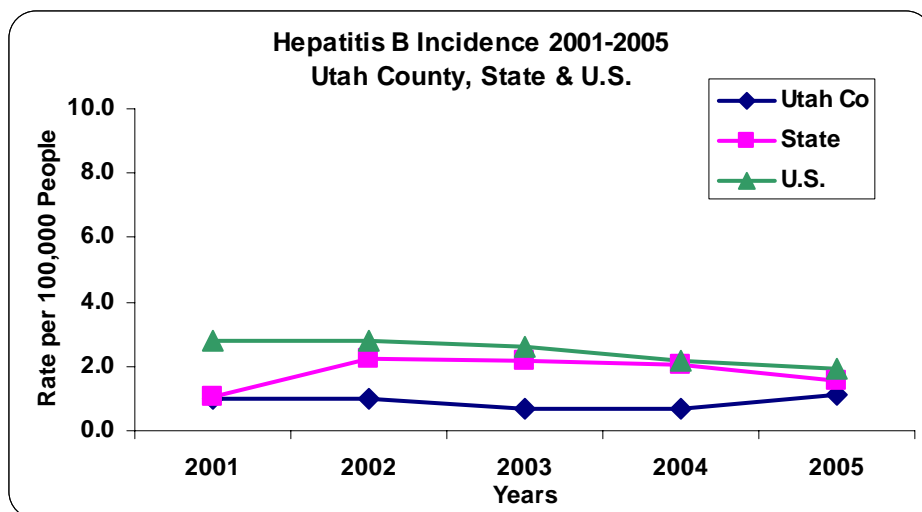
Year	US	State	TriCo
2001	2.7	3.4	2.4
2002	3.4	4.9	0.0
2003	4.0	5.3	2.4
2004	6.5	11.2	4.7
2005	7.1	24.4	11.8

Appendix D Incidence of Disease



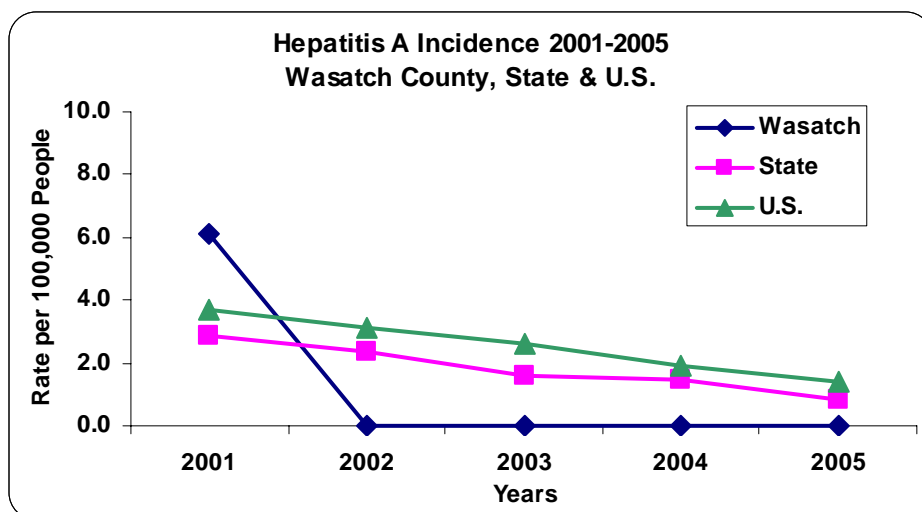
Hepatitis A			
Year	US	State	UtahCo
2001	3.7	2.9	2.6
2002	3.1	2.4	2.0
2003	2.6	1.6	1.9
2004	1.9	1.5	0.7
2005	1.4	0.8	1.3

Hepatitis B			
Year	US	State	UtahCo
2001	2.8	1.1	1.0
2002	2.8	2.2	1.0
2003	2.6	2.2	0.7
2004	2.2	2.0	0.7
2005	1.9	1.6	1.1



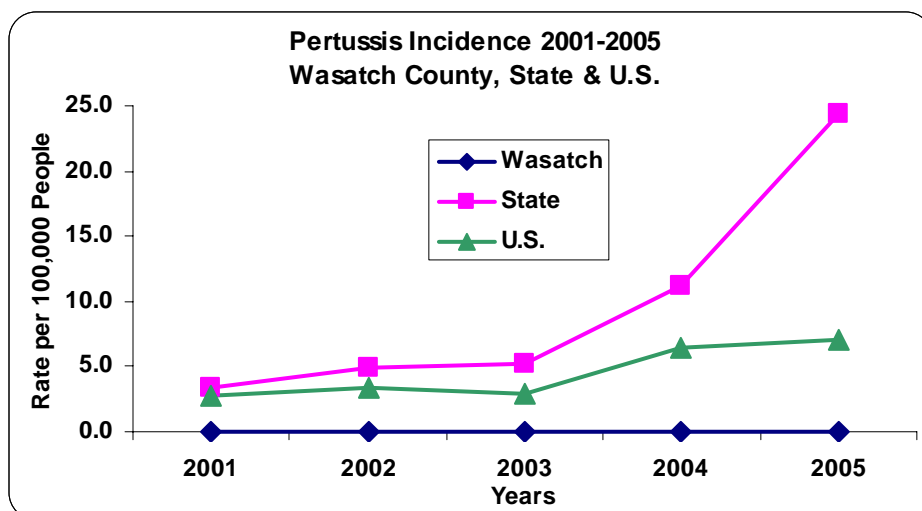
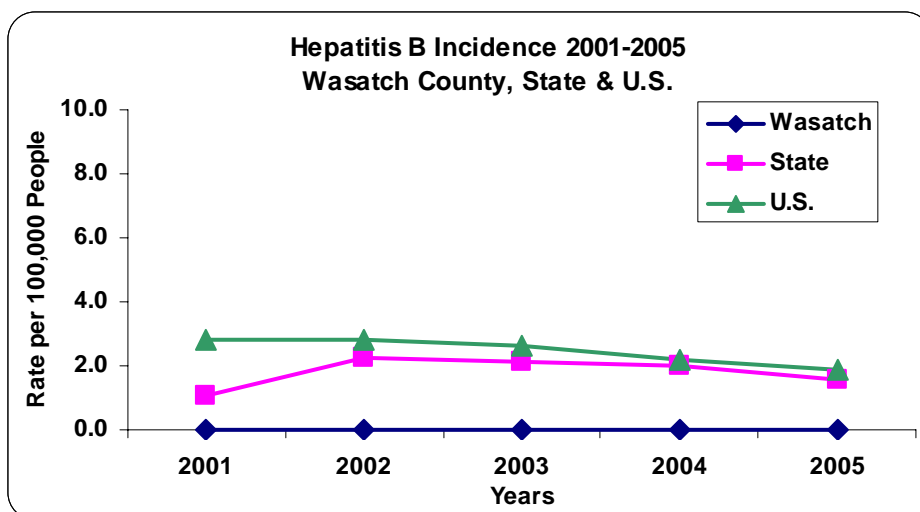
Pertussis			
Year	US	State	UtahCo
2001	2.7	3.4	3.1
2002	3.4	4.9	3.4
2003	4.0	5.3	2.4
2004	6.5	11.2	2.5
2005	7.1	24.4	24.9

Appendix D Incidence of Disease



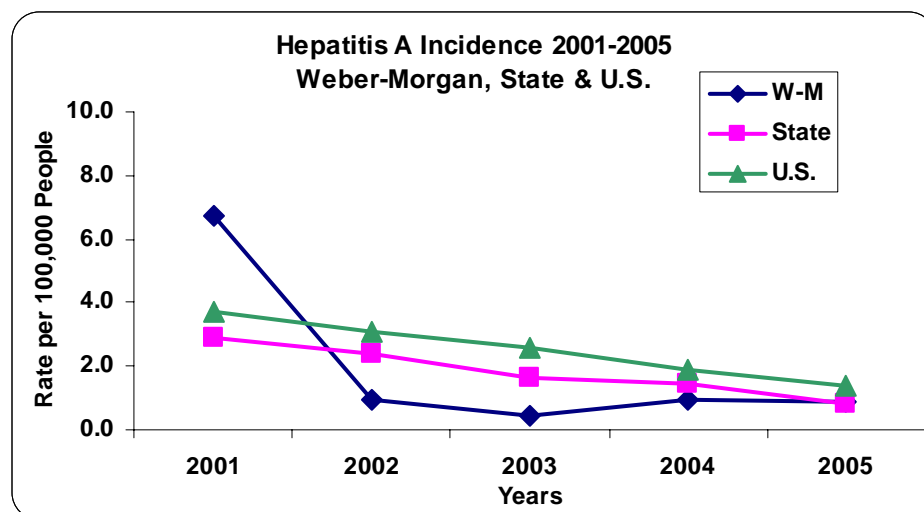
Hepatitis A			
Year	US	State	Was
2001	3.7	2.9	6.1
2002	3.1	2.4	0.0
2003	2.6	1.6	0.0
2004	1.9	1.5	0.0
2005	1.4	0.8	0.0

Hepatitis B			
Year	US	State	Was
2001	2.8	1.1	0.0
2002	2.8	2.2	0.0
2003	2.6	2.2	0.0
2004	2.2	2.0	0.0
2005	1.9	1.6	0.0



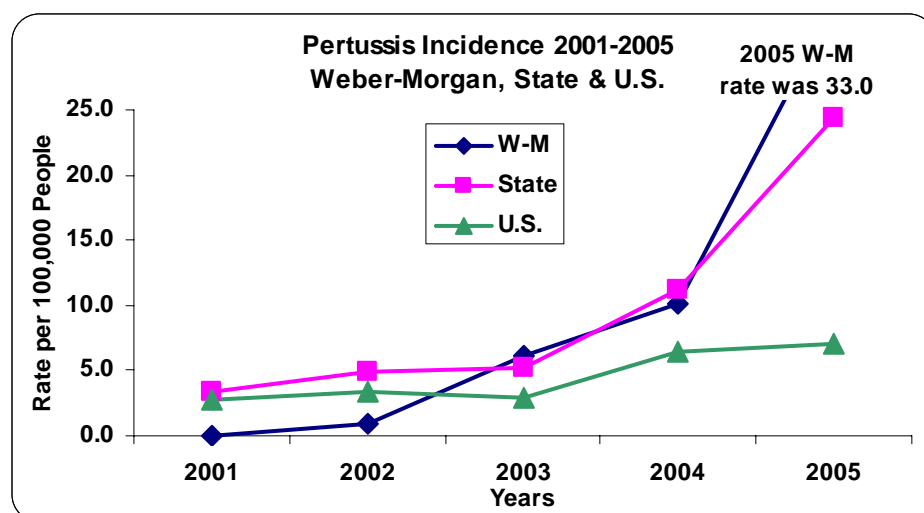
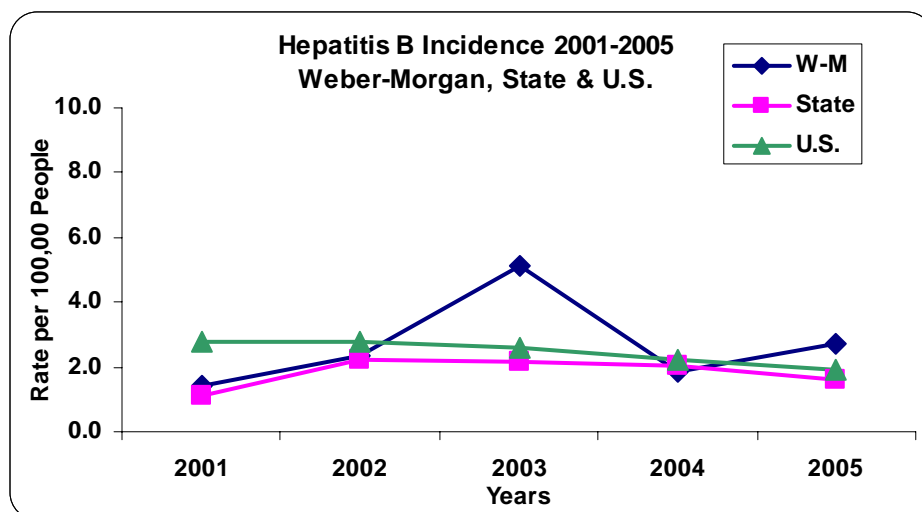
Pertussis			
Year	US	State	Was
2001	2.7	3.4	0.0
2002	3.4	4.9	0.0
2003	4.0	5.3	0.0
2004	6.5	11.2	0.0
2005	7.1	24.4	0.0

Appendix D Incidence of Disease



Hepatitis A			
Year	US	State	W-M
2001	3.7	2.9	6.7
2002	3.1	2.4	0.9
2003	2.6	1.6	0.5
2004	1.9	1.5	0.9
2005	1.4	0.8	0.9

Hepatitis B			
Year	US	State	W-M
2001	2.8	1.1	1.4
2002	2.8	2.2	2.4
2003	2.6	2.2	5.1
2004	2.2	2.0	1.8
2005	1.9	1.6	2.7



Pertussis			
Year	US	State	W-M
2001	2.7	3.4	0.0
2002	3.4	4.9	0.9
2003	4.0	5.3	6.1
2004	6.5	11.2	10.1
2005	7.1	24.4	33.0